







Committee Keynote Plenary Global Eng Education Industry4.0

Sponsors Proceedings Full Papers

**Preliminary Program** 

**Proceedings** 

### Scopus Indexing of **IEOM Papers**

**IEOM Society** International is a 501(c)(3) nonprofit organization approved by IRS (USA).

### Virtual Platform -

SCHED: https://engineeringforumieommty.sched.com/

Submission Link - https://www.xcdsystem.com/IEOM/abstract/index.cfm?ID=1GbJu13

Registration Link: https://www.xcdsystem.com/IEOM/attendee/index.cfm?ID=4JOlyri

### **Host: University of Monterrey**

Organized by: University of Monterrey and IEOM Society International

"The IEOM Society International is now jointly organizing with the University of Monterrey an International Conference on Industrial Engineering and Operations Management in conjunction with the Engineering Forum of the UDEM School of Engineering and Technologies.

**IEOM Society** International Site

Global Council

Membership

Student and Professional Chapters

**IFOM Awards** 

**IEOM Fellows** 

IJIEOM

#### **Photos of Past Events**

- 2019 Bangkok
- 2018 South Africa
- 2018 Washington DC
- 2018 Paris
- 2018 Bandung-
- 2018 Bandung-2
- 2017 Dhaka
- 2017 Bogota

### KEYNOTE SPEAKERS – 6<sup>th</sup> NA IEOM Conference, Monterrey, Mexico, November 3-5, 2021 November 3, 2021



Dr. José Ignacio Huertas Professor, Escuela de Ingenieria y Ciencias Energy and Climate Change Research Group Tecnológico Monterrey



General Director Automotive Cluster of Nuevo



Dr.-Ing. Patrick Dallasega Industrial Engineering and Automation Free University of Bozen-Bolzano,



Assistant Professor Department of Electric and Information Engineering Faculty of Engineering Politecnico di Bari, Italy



Eduardo Caballero Omnichannel and Customer Experience Manager Logrand Entertainment Group Monterrey, México

#### November 4, 2021





CPMM, CRL Director Operations Engine Cintas Corporation Houston, Texas, USA ring



uavid Pistrui, Ph.D.
Professor of Engineering
College of Engineering & Science
University of Detroit Mercy
Detroit, Michigan, USA
November 5, 2021



rof. Jose Arturo Garza-Reyes Professor and Head of the Centre for Supply Chain Improvement University of Derby, UK



Franco Omar Ramos Langer Channel Technical & Business Enablement Manager Siemens Digital Indus. Softwa Siemens DI Mesoamérica





Manager of Internationalizat and Innovation – La Salle II



Sent Septiment Secretary for Advance FIT Engineering Studies

San Sebastian University



Navarrete logies for EVs Monterrey, NL 66600, Mexico



IEOM Society International, a 501(c)(3) non-profit organization, is a premier international platform and forum for academics, researchers, scientists and practitioners to exchange ideas and provide insights into the latest developments and advancements in the fields of Industrial Engineering and Operations Management. IEOM has successfully organized international conferences in Dhaka (2010), Kuala Lumpur (2011), Istanbul (2012), Bali (2014), Dubai (2015), Orlando (2015), Kuala Lumpur (2016), Detroit (2016), Rabat (2017), Bristol, UK (2017), Bogota (2017), Bandung (2018), Paris (2018), Washington DC (2018), Pretoria (2018), Bangkok (2019), Pilsen (2019), Toronto (2019), Riyadh (2019), Dubai (2020), Detroit (2020), Harare (2020), Singapore (2021), Sao Paulo (2021) and Haiti (2021). IEOM Society is organizing the 6 North American International Conference on Industrial Engineering and Operations Management (IEOM) in Monterrey, Mexico, November 3-5, 2021. Due to the global pandemic, the event will be virtual and some onsite will be arranged based on the situations.

### PAPER (docx) - Paper / Abstract Template (MS Word Manuscript Required) - ABSTRACT (docx)

Some the events and activities that are planned include: keynote speakers, global engineering education track, industry solutions track, women in industry and academia track, undergraduate student paper competition sponsored by Siemens, graduate student paper competition sponsored by Eaton, doctoral dissertation competition, masters thesis cCompetition, simulation competition, senior design project competition, undergraduate research competition, high school STEM competition, panel sessions, recognition and awards.

### **Call for Papers Flyer**

All papers are subject to double peer review. IEOM Template must be followed. Accepted papers will be indexed in SCOPUS and EBSCO. Presentation can be delivered with abstract only. Full paper is optional.

1st, 2nd and 3rd places will be selected for each competition. Certificate awards will be provided for the winners.

### **CLICK LINKS FOR GUIDELINES:**

### **NEWS**

Binghamton University Join as a Partner University

 2017 Bristol. UK

> HS/MS STEM Poster Competition

2017 Morocco Photos

2016 Detroit **Photos** 2016 Malaysia **Photos** 

2015 Orlando

2015 Dubai **Photos** 2014 Bali **Photos** 

2012 Istanbul

Photos

Photos

2017

### **Upcoming** Conferences

- Czech Republic
- GCC in Riyadh
- Dubai
- San Paulo
- Rome
- Monterrey
- Singapore

### **Past Conferences**

- Bangkok, March 2019
- Pretoria, October 2018
- Washington DC, Sept. 2018
- Paris, July 2018
- Bandung, March 2018

#### IEOM 2017 Bogota

Marriott Hotel October 25-26, 2017

- 1. Undergraduate Student Paper Competition Sponsored by SIEMENS
- 2. Undergraduate Research Competition
- 3. Senior Capstone Design Project Competition / Final Year Project (FYP) Competition
- 4. Graduate Student Paper Competition Sponsored by EATON Corporation
- 5. Master Thesis Competition
- 6. Doctoral Dissertation Competition
- 7. High School STEM Competition
- 8. Human Factors and Ergonomics Competition
- 9. Simulation Competition
- 10. Lean Six Sigma Competition
- 11. Supply Chain and Logistics Competition
- 12. Poster Competition













Energy Efficiency in Vehicles)

#### **IEOM 2017 UK**

UWE Business School, Bristol July 24–25, 2017

#### **IEOM 2017 Morocco**

Sofitel Hotel Rabat April 11-13, 2017

#### **IEOM 2016 Detroit**

Lawrence Tech Campus September 23–25, 2016

### IEOM 2016 Malaysia

JW Marriott KL Hotel March 8-10, 2016

#### **IEOM 2016 Detroit**

Lawrence Tech University September 23–25, 2016

#### **IEOM 2015 Orlando**

Rosen Plaza Hotel September 10-11, 2015

#### IEOM 2015 Dubai

Hyatt Regency Hotel March 3-5, 2015

### IEOM 2014 Bali

Grand Hyatt Hotel January 7-9, 2014

### IEOM 2012 Istanbul

Istanbul Technical University July 3-6, 2012

### IEOM 2011 Kuala

### Lumpur

Season Four Hotel
January 22-24, 2011

#### IEOM 2010 Dhaka

IUT, Bangladesh January 7-9, 2010

### IEOM Conference Proceedings

ISSN: 2169–8767 (U.S. Library of Congress)

### **Conference Topics**: CLICK Here

### Special Tracks

- Global Engineering Education
- Industry 4.0
- Industry Solutions
- Smart Mobility
- Women in Industry and Academia
- Diversity and Inclusion
- Digital Transformation of Business Models

### **Panel Sessions**

- Industry 4.0
- Global Engineering Education
- Women in Industry and Academia (WIIA)
- Lean Six Sigma
- Supply Chain Management and Logistics
- Diversity and Inclusion panel sponsored by Ford Motor Company

### **Tourist Attractions**

- Fundidora Park / Foundry Park
- Paseo Santa Lucía, Monterrey Riverwalk with boat tours & local art
- Macroplaza Iconic plaza almost 100 acres in size
- Cerro de la Silla Iconic mountain with steep hiking trails
- Parque La Huasteca Mountain canyon expanse with camping
- Museum of Contemporary Art in Monterrey Contemporary artwork & sculpture garden
- Parque chipinque
- National park for hiking & star gazing
- Planetarium Alfa Planetarium & science/technology museum
- Museo de Historia Mexicana, Monterrey Museum of northern Mexican history
- Metropolitan Center San Pedro Garza Garcia
- Santiago center (typical town with restaurants)
- Bioparque Estrella (Ecological park in Allende 1 hour distance)

- Bangkok 2019
- Pretoria 2018
- Washington DC 2018
- Paris 2018
- Bandung 2018
- Bogota 2017
- Bristol (UK)2017
- Morocco 2017
- Detroit 2016
- Kuala Lumpur2016
- Orlando 2015
- Dubai 2015
- Bali 2014
- Istabul 2012
- KL 2011
- Dhaka 2010

Launch of Women in Industry and Academia Video

IEOM Women in Industry and Academia Forum







- Cola de caballo (Beautiful landscape with a waterfall which seems horse tail located in Santiago, Nuevo León- 40 minutes distance)
- García grottoes. (Located in the García city- 1 hour distance)
- Obispado Museum with a central city viewpoint with the biggest Mexican Flag
- Matacanes (Ecological park for rappelling and climbing 1 hour distance)
- Fashion drive shopping malls and restaurants

# Sponsors and Partners UDEM Universidad de Monterrey Autonomous University of Nuvu Leon Fitono (Spice Autonomous University of Nuvu Leon Fitonomous University Fitonomous Univers

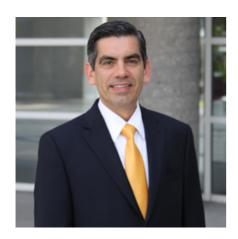
### **Important Dates**

Paper and abstract submission deadline: September 30, 2021

Notification of acceptance: October 5, 2021 Registration deadline: October 15, 2021 Conference: November 3–5, 2021

### **Honorary Chairs**

## **Dr. Jose Benito Flores-Juarez**Dean of Engineering and Technologies School University of Monterrey, México



**Dr. Bernardo Villarreal Celstino** Engineering Department University of Monterrey, México



**Dr. Luis Alberto Villarreal Villareal**Director of Business and Accounting School
Autonomous University of Nuevo Leon, Mexico



**Dr. Ricardo Ambrocio Ramírez-Mendoza**Associate Dean of Research
School of Engineering and Sciences
Tecnológico de Monterrey



**Dr. Manuel Montoya**General Director of the Automotive Cluster of Nuevo León, A.C. (CLAUT)

President of the National Network of Automotive Industry Clusters Council Member of the Latin American Chapter of TCI Network



### **Conference Chairs**

**Dr. Luz María Valdez-de la Rosa** Engineering Department University of Monterrey, México



**Dr. Edgar M. A. Granda**Director of Masters in Engineering Management
University of Monterrey, Mexico



**Dr. Jenny Díaz** Engineering Department University of Monterrey, México



**Dr. Ahad Ali**Associate Professor and Director of Industrial Engineering Lawrence Technological University, Michigan, USA



### **Technical Chairs**

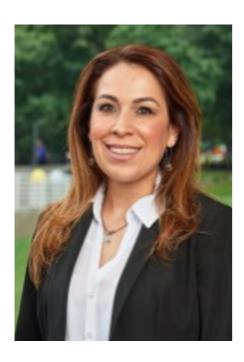
M.Sc. Karol Villarreal Zambrano Engineering Department, UDEM



**Dr. Fernando González Aleu** Engineering Department, UDEM



**Dr. Teresa Verduzco**Engineering Department, UDEM



**Dr. Mónica Blanco** Graduate Center, Business and Accounting School Autonomous University of Nuevo León, México



**Dr. Jorge de Jesús Lozoya-Santos** School of Engineering and Sciences Tecnológico de Monterrey



**Dr. David Güemes-Castorena**School of Engineering and Sciences
Tecnológico de Monterrey



**Mónica Rodríguez**Assistant Technical Manager
Automotive Cluster of Nuevo León, A.C. (CLAUT)



Ricardo Apaez
Innovation Director
Automotive Cluster of Nuevo Leon, A.C. (CLAUT)



Osmar Ernesto Arandia Pérez Director of Graduate Programs UDEM Business School. (DINE)



**William Henry Steinwascher Sacio**Director of Business Graduate Programs
UDEM Business School. (DINE)



Dr. José Alfredo Galván Galván Director of the Division of Engineering and Sciences Engineering and Sciences School Tecnológico de Monterrey



**Dr. Jose Ignacio Huertas**Member of Relieve
Professor of the Mechanical Engineering Department at Tecnológico de Monterrey.
Researcher of the Energy and Climate Change Research Group



**Dr. María Araiza** Autonomous University of Nuevo León

	i	
Lean Six Sigma	Fernando González Aleu González	UDEM
Lean Six Sigma	Jesús Gerardo Cruz Alvarez	FACPYA
Logistics	Dr. Daniel Prato	RELIEVE
Logistics	Pamela Jocelyn Palomo Martínez	UDEM
Maintenance Services		
Manufacturing	Demófilo Maldonado Cortés	LIDEM

- University of Monterrey, Mexico
- Business School of Autonomous University of Nuevo Leon, Mexico
- Tecnológico de Monterrey, Mexico
- Binghamton University, The State University of New York (SUNY), USA
- Chiang Mai University, Thailand
- Eastern Michigan University, USA
- Florida Polytechnic University
- Lawrence Technological University, Michigan, USA
- Prince Sultan University, Riyadh, Saudi Arabia
- University of Derby, UK
- University of the District of Columbia (UDC), Washington, DC, USA
- University of New Brunswick at Fredericton, Canada
- University of the District of Columbia, Washington, DC, USA
- Universite De Lorraine, Nancy cedex France
- Wayne State University, Detroit, Michigan, USA
- Universitas Sebelas Maret (UNS), Surakarta, Indonesia
- Universiti Tun Hussein Onn Malaysia (UTHM)
- EMI, Mohammed V University, Rabat, Morocco

- Cintas Corporation
- Eaton Corporation
- EFR Certification
- Ford Motor Company
- SIEMENS
- Tooling Tech Group
- The Automotive Cluster of Nuevo León (CLAUT)
- RELIEVE (Latin American Network of Energy Efficiency in Vehicles)
- African Engineering Education Association (AEEA)
- BKSTI: Agency for Cooperation of Higher Education of Industrial Engineering, Indonesia
- CATME, Purdue University
- Indian Institute of Industrial Engineering (IIIE)
- International Federation of Engineering Education Societies (IFEES)
- Pakistan Society of Industrial Engineering (PSIE)
- Society of Cost and Quality Engineers (SCQE)
- Robofest

Attendance Certificates will be provided for conference participants. Continuous Education Unit (CEU) is available. IEOM Society International will provide some awards and recognition

Contact: info@ieomsociety.org

- Sao Paulo 2021
- Singapore 2021
- Harare 2020
- Detroit 2020
- Program Dubai 2020
- Program Riyadh 2019
- Program Toronto 2019
- Program Pilsen 2019
- Program Bangkok 2019
- Program Pretoria 2018
- Program IEOM 2018 Washington DC
- Program IEOM 2018 Paris
- Program IEOM 2018 Bandung
- Program IEOM 2017 Bogota
- Program IEOM 2017 UK (Bristol)
- Program IEOM 2017 Rabat, Morocco
- Program IEOM 2016 Detroit
- Program IEOM 2016 Kuala Lumpur
- Program IEOM 2015 Orlando
- Program IEOM 2015 Dubai
- Program IEOM 2014 Bali
- Program IEOM 2012 Istanbul
- Program IEOM 2011 Malaysia
- Program IEOM 2010 Dhaka

IEOM Society International is a 501(c)(3) nonprofit organization, registered with the State of Michigan and tax exemption status approved by IRS.









Home Authors Competitions Registration Program Committee Keynote Plenary Global Eng Education Industry4.0 SCM Panels

Sponsors Proceedings Full Papers

ISSN: 2169-8767 (U.S. Library of Congress)

ISBN: 978-1-7923-6130-2

Full papers will be indexed in Scopus and EBSCO.

### ID 1 Location of a Temporary Site to Earthquake Waste Separation. Case study: Mexico City

Adriana Guadalupe Aguilar Montoya, Ángel Leonardo Bañuelos Saucedo, Flor Hernández Padilla

Mechanical and Industrial Engineering Division, School of Engineering, National Autonomous University of Mexico, Mexico City.

### ID 7 Factors Influencing Transport Productivity of a Freight Transport Company

Felix Eduardo Bueno Pascual

José Luis Martínez Flores

Santiago Omar Caballero Morales, School of Logistics and Supply Chain Management, Universidad Popular Autónoma de Puebla, Avenida 9 Poniente 1712, C.P. 72410, Puebla, Puebla, México

Luis Alberto Barroso Moreno, Universidad de las Américas Puebla. Ex Hacienda Sta. Catarina Mártir S/N. San Andrés Cholula, Puebla. C.P. 72810. México

### ID 9 Business Plan Considerations for a Small Scale Mining Operation

Mercy Manyuchi, Department of Operations and Quality Management, Faculty of Engineering and the Built Environment, University of Johannesburg, South Africa

N. Sukdeo, Department of Operations and Quality Management, Faculty of Engineering and the Built Environment, University of Johannesburg, South Africa

### ID 10 The Challenges Affecting the Reliability and Maintainability of Rolling Stock Operating in the Thabazimbi Channel

Avumile Bera, Bheki Makhanya and Hannelie Nel, Postgraduate School of Engineering Management, University of Johannesburg, Johannesburg, South Africa

### ID 11 Reliability analysis of wastewater treatment plants: Lesotho case study

Mohasi Ntelekoa, Bheki Makhanya, Hannelie Nel, Postgraduate School of Engineering Management, University of Johannesburg, Johannesburg, South Africa

### ID 12 The Importance of Post-mortems in Construction Projects

Gavin Motswadi and Hannelie Nel, Postgraduate School of Engineering Management, University of Johannesburg,

### ID 13 Quality and Reliability Analysis of Long-hole Stope Slots: A Case Study at South Deep Gold Mine Based on Drilling and Blasting Practices

M. Tshabalala and JHC. Pretorius, Postgraduate School of Engineering Management, University of Johannesburg, South Africa

### ID 14 Critical Success Factors as Enablers to Achieve Quality Management System Benefits: An Engineering Organisational Case Study

Siyabonga Zwane, Annlizé Marnewick and Hannelie Nel, Postgraduate School of Engineering Management, University of Johannesburg, Johannesburg, South Africa

### ID 15 Application of the Delphi Technique to Improve the Implementation of Cost of Quality in Industry

B.B.S Makhanya, H. Nel, J.H.C. Pretorius, Postgraduate School of Engineering Management, University of Johannesburg, Johannesburg, South Africa

#### ID 16 Applications of Lean Manufacturing in a manufacturing company in South Africa

Mpho Karen Masemola, Bheki Makhanya and Hannelie Nel, Department of Engineering Management, University of Johannesburg, Johannesburg, South Africa

### ID 17 Application of Fuzzy Logic for Evaluation of the Level of Social Acceptance of Traffic Noise Pollution Reduction Strategies in Western New York

Daxing Zhao, Zichuan Liu, Anthony Runk, Johnson Adebayo Fadeyi, Department of Industrial & Systems Engineering, University at Buffalo, Buffalo, NY, USA

#### ID 18 The Optimization of an Electric Vehicle (EV) for Improved Range

Douglas W.E. Ferrier, College of Technology, Indiana State University, Terre Haute, IN 47809, USA

Patrick Appiah-Kubi, Program Director, Cloud Computing & Computer Networking, Cybersecurity Department, School of Cybersecurity & Information Technology, University of Maryland Global Campus

### ID 19 IIoT and Assisted Reality: Re-Shaping Traditional Robotic Cells

E. N. Finley, S. M. DeWildt, N. A. MacArthur, Z. A. Rougeau, and E. I. Sarda, School of Engineering and Technology, Lake Superior State University, Sault Sainte Marie, MI 49783, USA

### ID 20 The Use of Electric Cars in Short-Notice Evacuations: A Case Study of California's Natural Disasters

Roxanne Peterson and Mohamed A. Awwad, Industrial and Manufacturing Engineering Department, California Polytechnic State University, San Luis Obispo, San Luis Obispo, CA 93407, USA

### ID 21 Reciprocating sliding motion tribometer design

Demófilo Maldonado Cortés, Dra. Laura Peña Parás, Mechanical and Electronics Department, University of Monterrey, Monterrey, México

Lizbeth Pérez Alvizo, Yadira Lissete Rangel Acosta, Jesús Ricardo Puente Martínez, Mechanical Engineering Students, Universidad de Monterrey, Monterrey, México

### ID 22 The Accuracy of Dynamic Simulation with the Use of TSB within JACK Siemens PLM software

Xiaoxu Ji, Justo Hernandez, Emily Schweitzer and Alexa Littman, Department of Biomedical, Industrial and Systems Engineering, Gannon University, Erie, PA 16541, USA

### ID 25 Simulation of Texture Geometries to Optimize Tribological Properties

Adrián Rodríguez, Luisa Martínez, Luis Miranda, School of Engineering and Technologies, Universidad de Monterrey, San Pedro Garza García, N.L. 66238, México

Laura Peña-Parás, Santiago Cruz and Demófilo Maldonado, Department of Mechanical and Electronic Engineering, Universidad de Monterrey, San Pedro Garza García, N.L. 66238, México

Martha Rodríguez-Villalobos, Department of Physics and Mathematics, Universidad de Monterrey, San Pedro Garza García, N.L. 66238, México

### ID 26 Diffusion of Facilities Management in an Emerging Market: Case of Sri Lanka

Himal Suranga Jayasena, Department of Building Economics, University of Moratuwa, Moratuwa, Sri Lanka

Gowsiga Mahendrarajah, Department of Building Economics, University of Moratuwa, Moratuwa, Sri Lanka

### ID 27 Mobile Application Design for Managing Preventive Maintenance Information for Neonatal Respirators

Jhonatan Junnior Anaya Medina, Diego Daniel Martínez Calderón, and José Antonio Taquía Gutiérrez, School of Engineering and Architecture, University of Lima, Peru

### ID 29 Estimate the Potential in the Harvest of the Sacha Inchi Seed in A 12-Hectare Crop, Using the Decision-Making Model Under Uncertainty

Luis Fernando Pedraza Ruiz, Department of Engineering, Fundación Universitaria de Popayán, Popayán, Colombia

Ingrid Milena Fernandez, Department of Engineering, Fundación Universitaria de Popayán, Popayán, Colombia

### ID 30 Statistical Analysis Methods changed from Traditional to a Continuous Annealing Heat Treatment in a Copper Wire Drawn Machine

Francisco Antonio Perales Carballedo, UPAEP University, México

José Luis Martínez-Flores, UPAEP University, México

### ID 31 Risk Factors and Prediction of ST-segment Elevation Myocardial Infarction

Joshua Emakhu, Leslie Monplaisir, Celestine Aguwa, and Sara Masoud, Department of Industrial and Systems Engineering, Wayne State University, Detroit, MI 48201, USA

Suzan Arslanturk, Department of Computer Science, Wayne State University, Detroit, MI 48201, USA

Egbe-Etu Etu, Department of Marketing and Business Analytics, San Jose State University, San Jose, CA 95192, USA

Joseph Miller, Department of Emergency Medicine and Internal Medicine, Henry Ford Hospital, Detroit, MI 48202, USA

### ID 33 Designing System Assessment of Supply Chain Management Performance in Bridge Project using SCOR

Naniek Utami Handayani, Industrial Engineering Department, Diponegoro University, Prof. Soedarto, S.H., Semarang, 50275, Indonesia

Anita Mustikasari, Management Department, Yogyakarta State University, Colombo No. 1 Yogyakarta, 55281, Indonesia

Mochammad Agung Wibowo, Civil Engineering Department, Diponegoro University, Prof. Soedarto, S.H., Semarang, 50275, Indonesia

Chemink Sugondo Simanungkalit, Industrial Engineering Department, Diponegoro University, Prof. Soedarto, S.H., Semarang, 50275, Indonesia

### ID 34 AHP Method for Supply Chain Management Performance Measurement in Construction (Study Case: Bridge Project)

Anita Mustikasari, Management Department, Yogyakarta State University, Colombo No. 1 Yogyakarta, 55281, Indonesia

Naniek Utami Handayani, Industrial Engineering Department, Diponegoro University, Prof. Soedarto, S.H., Semarang, 50275, Indonesia

Mochammad Agung Wibowo Civil Engineering Department, Diponegoro University, Prof. Soedarto, S.H., Semarang, 50275, Indonesia

Chemink Sugondo Simanungkalit, Industrial Engineering Department, Diponegoro University, Prof. Soedarto, S.H., Semarang, 50275, Indonesia

### ID 36 Local Content Requirements in the South African Renewable Energy Independent Power Producer Procurement Programme- With a Focus on Wind

Andile Mgudlwa, Jan Harm C. Pretorius, Faculty of Engineering and the Built Environment, University of Johannesburg, Johannesburg, South Africa

### ID 37 A Study of the Watershed Management (Maintained and Restored) in Krueng Peusangan, Aceh Province, Indonesia

Halim Akbar, Riyandi Praza and Muhammad Authar ND, Faculty of Agriculture, Universitas Malikussaleh, East Reuleut, Muara Batu, 24355 North Aceh Regency, Aceh, Indonesia

Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia

Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor Malaysia

### ID 38 Analyzing the Effect of Products and Human Resources Towards Customer Loyalty at Bank Aceh Syariah, Bireuen, Indonesia

Damanhur, Falahuddin, Rani Puspitanigrum, Intan Magfirah, Faculty of Economics and Business, Universitas Malikussaleh, Lhokseumawe, Aceh Utara 24351, Indonesia

Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia

Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor Malaysia

### ID 39 Optimising and Digitalising the Technology-Based Electronic Justice in the 4.0 Era: A Judicial Reform

Elidar Sari and Arif Rahman, Faculty of Law, Universitas Malikussaleh, Muara Satu, Kota Lhokseumawe, Aceh 24355, Indonesia

Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia

Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor Malaysia

### ID 40 A Study of Community Empowerment Strategy for Vulnerable Groups in Eradicating Poverty at Aceh Province, Indonesia

Risna Dewi and Teuku Alfiady, Faculty of Social and Political Science, Universitas Malikussaleh, Muara Satu, Aceh Utara, Aceh 24355, Indonesia

Jumadil Saputra and Zikri Muhammad, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia

Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor Malaysia

### ID 41 An Investigation of Biodiversity and Genetic Resources: The Importance of Legal Protection in Indonesia

Yulia, Faculty of Law, Universitas Malikussaleh, Muara Satu, Kota Lhokseumawe, Aceh 24355, Indonesia

Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia

Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor Malaysia

### ID 42 Determining and Evaluating the Pyrolysis of Candlenut Shell as an Alternative Energy Sources

Sulhatun, Muhammad, Suryati, Meriatna and Lukman Hakim, Department of Chemical Engineering, Faculty of Engineering, Universitas Malikussaleh, Muara Batu, Aceh Utara, Aceh, Indonesia

Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia

Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor Malaysia

### ID 43 Chitosan-Alginat-Aloe Vera Biomembran for Wound Dressing Applications

Suryati, Meriatna, Sulhatun and Puspita Sari, Department of Chemical Engineering, Faculty of Engineering, Universitas Malikussaleh, Muara Batu, Aceh Utara, Aceh, Indonesia

Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia

Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor Malaysia

### ID 44 Identifying the Effectiveness of Business Incubator Training among UPN Veteran Jakarta Undergraduate Students: An Application of Randomized Controlled Trial Approach

Widayani Wahyuningtyas, Department of Nutrition, Faculty of Health Sciences, Universitas Pembangunan Nasional Veteran Jakarta, Depok, Daerah Khusus Ibukota Jakarta 12450, Indonesia

Zackharia Rialmi, Department of Management, Faculty of Business and Economics, Universitas Pembangunan Nasional Veteran Jakarta, Depok, Daerah Khusus Ibukota Jakarta 12450, Indonesia

Condrowati, Department of Physiotherapy, Faculty of Health Sciences, Universitas Pembangunan Nasional Veteran Jakarta, Depok, Daerah Khusus Ibukota Jakarta 12450, Indonesia

Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia

Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor Malaysia

### ID 45 Analysis of the Adoption of EVs and Charging Infrastructure in Mexico

Adrian Ramirez-Nafarrate, Mitchell Ruiz Martinez, and Juan C. Grayeb Pereira, Facultad de Ciencias Económicas y Empresariales, Universidad Panamericana, Zapopan, Jalisco 45010, Mexico

### ID 46 Description of the Electrification and Drinking Water Processes in Non-Interconnected Zones (ZNI) and Construction of Explanatory Structures of these Processes in a Particular Community

Iván David Sánchez, Maria Fernanda Flórez, Luisa Fernanda Jimenez, Laura Milena Cárdenas, Industrial Engineering Department, University of Antioquia, Medellín, Colombia

### ID 49 Familiness from the approach of Participation, Essence and Identity in Family Businesses of two municipalities in the Northern Zone of the State of Mexico: An Empirical Approach

Sayde Suárez Odilón, Universidad Autónoma del Estado de México, Centro Universitario Atlacomulco

Zugaide Escamilla Salazar, Universidad Autónoma del Estado de México, Centro Universitario Atlacomulco

Carlos Robles Acosta, Universidad Autónoma del Estado de México, Centro Universitario Ecatepec

### ID 55 Building Models Based on Artificial Neural Networks to Predict Customer's Purchase Frequency

Galo Paiva, Departamento de Ingeniería Industrial y Sistemas, Universidad de La Frontera, Temuco, Chile

Carlos Hernández, Departamento de Procesos Industriales, Universidad Católica de Temuco, Temuco, Chile

### ID 56 Applying Machine Learning Algorithms to Predict the Interest in Entrepreneurship among Engineering Students

Magaly Sandoval, Departamento de Ingeniería Industrial y Sistemas, Universidad de La Frontera, Temuco, Chile Carlos Hernández, Departamento de Procesos Industriales, Universidad Católica de Temuco, Temuco, Chile

### ID 57 Effects of Technological Factors and Mental Workload in Online Higher Education Professors on Their Academic Performance

Arturo Realyvasquez Vargas, Department of Industrial Engineering, Tecnológico Nacional de México/I.T. Tijuana, Tijuana, Baja California, Mexico

Karina Cecilia Arredondo Soto, Chemical Sciences and Engineering Faculty, Universidad Autónoma de Baja California, Calzada Universidad 14418, Parque Industrial Internacional, Tijuana, Baja California 22390, Mexico

Jorge Luis García-Alcaraz, Department of Industrial Engineering and Manufacturing, Autonomous University of Ciudad Juarez, Ciudad Juárez, Chihuahua 32310, Mexico

Department of Industrial Engineering, Tecnológico Nacional de México/I.T. Ciudad Juárez, Ciudad Juárez, Chihuahua 32500, Mexico

José Roberto Díaz Reza, Division of Research and Postgraduate Studies, Tecnológico Nacional de México/I.T. Ciudad Juárez, Ciudad Juárez, Chihuahua 32500, Mexico

Jesús Everardo Olgín Tiznado, Faculty of Engineering, Architecture, and Design, Autonomous University of Baja California, Ensenada, Baja California, Mexico

### ID 58 Responsible consumption as a driver for remanufactured products

Karina Cecilia Arredondo-Soto, Facultad de Ciencias Químicas e Ingeniería, Universidad Autónoma de Baja California, Calzada Universidad #14418, Parque Industrial Internacional, Tijuana 22390, Baja California, México.

Arturo Realyvasquez-Vargas, Department of Industrial Engineering, Tecnológico Nacional de México/Instituto Tecnológico de Tijuana, Calzada del Tecnológico S/N, Tijuana 22414, Baja California, Mexico.

Jorge Luis Garcia-Alcaraz, Department of Industrial and Manufacturing Engineering, Autonomous University of Ciudad Juarez, Ave. del Charro 450 Norte. Col. Partido Romero, Ciudad Juárez 32310, Chihuahua, México.

Jesús Everardo Olguín-Tiznado, 4Departme Faculty of Engineering, Architecture, and Design. Autonomous University of Baja California.Carr. Transpeninsular 3917, U.A.B.C., 22860 Ensenada, Baja California, México.

José Roberto Díaz-Reza, Department of Electric Engineering and Computer Sciences, Autonomous University of Ciudad Juarez, Ave. del Charro 450 Norte. Col. Partido Romero, Ciudad Juárez 32310, Chihuahua, México

#### ID 59 Mapping of New Venture Creation Publication Themes: A 35-Year Overview

Agung Purnomo, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia

Nur Afia, Institute for Research and Community Services, Universitas Nahdatul Ulama Sidoarjo, Sidoarjo 61218, Indonesia

Kukuh Lukiyanto, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia

Raden Dafi Dinansyah Wiradimadja, Environmental Science Department, Mie University, Mie 5148507, Japan

Diana Yuniarti, Elementary Education Department, Universitas Nahdatul Ulama Sidoarjo, Sidoarjo 61218, Indonesia

### ID 60 Rural Entrepreneur Publication: Insights from Bibliometric Application between 1985 and 2020

Agung Purnomo, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia

Nuzula Firdausi, Institute for Research and Community Services, Universitas Nahdatul Ulama Sidoarjo, Sidoarjo 61218, Indonesia

Elsa Rosyidah, Environmental Engineering Department, Universitas Nahdlatul Ulama Sidoarjo, Sidoarjo 61218, Indonesia

Siti Aminatus Sholichah, Elementary Education Department, Universitas Nahdlatul Ulama Sidoarjo, Sidoarjo 61218, Indonesia

Ajie Muhammad Ichsan Susila, Psychology Department, Universitas Padjadjaran, Sumedang 45363, Indonesia

### ID 62 A Bibliometric Perspective of Facebook Research in Business & Management during Two Decades

Agung Purnomo, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia

Andre Septianto, Institute for Research and Community Services, Universitas Nahdatul Ulama Sidoarjo, Sidoarjo 61218, Indonesia

Fairuz Iqbal Maulana, Computer Science Department, Bina Nusantara University, Jakarta 11480, Indonesia

Khoiriyatun Nahdiyah, Elementary Education Department, Universitas Nahdatul Ulama Sidoarjo, Sidoarjo 61218, Indonesia

Zaha Azzahira, Communication Science Department, Universitas Airlangga, Surabaya 60115, Indonesia

### ID 63 E-Strategy: A Bibliometric Network Visualizing of Publication Over the Past Four Decades

Agung Purnomo, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta 11480, Indonesia

Nur Asitah, Institute for Research and Community Services, Universitas Nahdatul Ulama Sidoarjo, Sidoarjo 61218, Indonesia

Dian Utami Sutiksno, Business Administration Department, Politeknik Negeri Ambon, Ambon 97233, Indonesia

Inayatul Maula, Elementary Education Department, Universitas Nahdatul Ulama Sidoarjo, Sidoarjo 61218, Indonesia

Alifah Dian Rahmania, Master of Industrial Engineering Department, Universitas Sebelas Maret, Surakarta 57126, Indonesia

### ID 64 A Study of m-Business Research Using Bibliometric Review

Agung Purnomo, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia

Mega Firdaus, Institute for Research and Community Services, Universitas Nahdatul Ulama Sidoarjo, Sidoarjo 61218, Indonesia

Etsa Astridya Setiyati, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia

Ayu Munjidah, Elementary Education Department, Universitas Nahdatul Ulama Sidoarjo, Sidoarjo 61218, Indonesia

Muhammad Syamsul Fauz, Master of Management Department, Universitas Hayam Wuruk Perbanas, Surabaya 60296, Indonesia

### ID 65 Configuration of electric vehicles for specific applications from a sustainable perspective

José Ignacio Huertas, Antonio E. Mogro and Juan P. Jimenez, School of Engineering and Science, Tecnologico de Monterrey, Monterrey, Mexico

**ID 66** Fostering Creativity and Innovations based on Classification Schemes: Case Studies in Engineering Design Education Karl Hain and Christoph Rappl, Faculty of Mechanical Engineering and Mechatronics, DIT Deggendorf Institute of Technology, 94469 Deggendorf, Bavaria, Germany

#### ID 68 Four Decades of the Consumer Culture Publication: A Bibliometric Overview

Yanuarita Kusuma Permata Sari, Communication Science Department, Faculty of Economics and Communication, Bina Nusantara University, Jakarta 11480, Indonesia

Bruce Dame Laoera, School of Liberal Arts, Mae Fah Luang University, Thailang

Windaningsih, Communication Science Department, Faculty of Economics and Communication, Bina Nusantara University, Jakarta, Indonesia

Agung Purnomo, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia

### ID 70 Smart Irrigation Scheduling Algorithms and Deployment Scenarios: Challenges and Recommendations for Farming in the Sub-Saharan Africa

Supreme Ayewoh Okoh, Suleiman Zubairu, Bala Alhaji Salihu and Elizabeth N. Onwuka, Department of Telecommunication Engineering, Federal University of Technology, Minna, Nigeria

### ID 71 Determining Senecio Elegans Population Size and Dispersion Patterns in order to Inform Volunteer Removal Efforts Tanisha Gupta, Stanford University Online High School, Redwood City, CA 94063, USA

### ID 72 Analysis of Autism Spectrum Disorder and Metrics of Eye Movement

Ethan S. Yun, Stanford Online High School, Redwood City, CA 94063, USA

#### ID 73 Relationship between Playing Video Games and Happiness

Allie Lin, Stanford Online High School, Redwood City, CA 94063, USA

### ID 74 Investigating the Authority of the Prosecutor as An Alternative for Criminal Case Handling in the Indonesian Justice System

Jamaluddin, Marlia Sastro, Ramziati, Faculty of Law, Universitas Malikussaleh, Muara Satu, Kota Lhokseumawe, Aceh 24355, Indonesia

Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia

Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor Malaysia

#### ID 75 Investigating the Commercial Innovative Marketing in the Digital Era 4.0: A Comparative Study

Khalsiah and Yuliusdharma, Faculty of Business and Economics, Universitas Malikussaleh, Blang Pulo, Muara Satu, Aceh Utara, 24355 Aceh, Indonesia

Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia

Saifuddin Yunus, Faculty of Social and Political Sciences, Universitas Malikussaleh, Blang Pulo, Muara Satu, Aceh Utara, 24355 Aceh, Indonesia

Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor Malaysia

### ID 76 How can Corporate Performance Kept in Multinational Firm: a Study from Indonesia

Sidik Budiono, Department of Management Faculty of Economics and Business, Universitas Pelita Harapan, Tangerang-15811, Indonesia

John Tampil Purba, Department of Management Faculty of Economics and Business, Universitas Pelita Harapan, Tangerang-15811, Indonesia Wilson Rajagukguk, Department of Management Faculty of Economics and Business, Universitas Kristen Indonesia, Jakarta, Indonesia

### ID 77 Maintaining Brand Equity of Business Strategy in Multinational Firm: Fact from Indonesia

Sidik Budiono, Department of Management Faculty of Economics and Business, Universitas Pelita Harapan, Tangerang-15811, Indonesia

John Tampil Purba, Department of Management Faculty of Economics and Business, Universitas Pelita Harapan, Tangerang-15811, Indonesia

Gidion P. Adirinekso, Department of Management Faculty Economics and Business, Universitas Kristen Krida Wacana, Jakarta, 11470 Indonesia

### ID 78 Effect of Investment Opportunity Set, Firm Size, Institutional Ownership and Dividend Policy on the Firm Value in Automotive and Components Companies Listed on the Indonesia Stock Exchange for the Period 2015–2019

Agung Fajar Ilmiyono, Hari Gursida, Ellyn Octavianty and Ani Mulyani, Department of Accounting, Faculty of Economics and Business, Universitas Pakuan, Bogor, Indonesia

### ID 79 Cooperative And MSME Empowerment Strategies in Economic Recovery During the Covid-19 Pandemic in Bogor District

Dinalara D Butarbutar and Mustika Mega Wijaya, Department of Law, Faculty of Law Pakuan University, Bogor, Indonesia

### ID 80 Optimization Regional Original Income (PAD) of Economic Growth Bogor City 2015–2020 (During Covid–19)

Retno Martanti Endah Lestari, Ernadhi Sudarmanto, Antania Hanjanilia Ristiyana, Accounting Departement, Economics and Bussiness Faculty, Pakuan University, Bogor, West Java, Indonesia

### ID 81 Soft Skills Improvement Of Youth Organization: Entering The Work Environment

Salmah, Fredi Andria, and Amelia Rahmi, Faculty of Economics and Business Pakuan University, Bogor, Indonesia

### ID 82 Implementation of Criminal Sanctions in Law Number 6 of 2018 Concerning Health Quarantine for Large-Scale Social Restriction Breakers in the Jabodetabek Area

Sapto Handoyo DP and Nazaruddin Lathif, Departement of Law, Faculty of Law Pakuan University, Bogor Indonesia

### ID 83 The Impact of Narcotics Use and Selling in Criminological Studies: Learn from Indonesia

Dr. Esti Royani, Faculty of Law, 17 Agustus 1945 University, Samarinda, Indonesia

### ID 85 Net Promoter Score Scale Transformed into a Logit Model, a Full-service Restaurant Approach

Christian Reich López, María Mayela Terán Cázares, Jesús Fabián López Pérez, Mónica Blanco Jimenez, Universidad Autónoma de Nuevo León, Facultad de Contaduría Pública y Administración Av. Universidad S/N, Col. Ciudad Universitaria, San Nicolas de los Garza, Nuevo León, México.

### ID 86 Ambidexterity: Strategies to Deal with the Impact of the COVID-19 Pandemic on SMEs in Indonesian's Creative Industry

Maria Pampa Kumalaningrum, Management Doctoral Program-Faculty of Economic and Business, Universitas Gadjah Mada (UGM), Yogyakarta, Indonesia, Department of Management-Faculty of Economic and Business, STIE Yayasan Keluarga Pahlawan Negara (STIE YKPN), Yogyakarta, Indonesia

Wakhid Slamet Ciptono, Nurul Indarti, Boyke Rudy Purnomo, Department of Management-Faculty of Economic and Business, Universitas Gadjah Mada (UGM), Yogyakarta, Indonesia

### ID 87 Simulation Improves Service and Operations at a Franchise Resale Store

Caitlin Pethers, Marie Ruesga, Parker Moesta, and Edward J Williams, Business Analytics, College of Business, University of Michigan - Dearborn, Dearborn, MI, 48126, USA

### ID 89 Application of factorial analysis and multiple regression for the prediction of the stabilization time in furnaces in the heat treatment area in a metalworking company

M.Sc. Refugio Chávez Hernández, Doctorate in Supply Chain Management and Logistics, Popular Autonomous University of Puebla State, México.

Ph.D. José Luis Martínez Flores, Faculty of Industrial, Logistics and Manufacturing, Popular Autonomous University of Puebla State, México

Eng. Carlos Mario Leal Garza, Industrial and System Engineer, University of Monterrey, México.

#### ID 90 Enhancement of Corrosion Resistance of Hot-Dip Galvanized Carbon Steel by Low Amount of Ni Addition

Rafael Gonzalez-Parra, Arturo Barba-Pingarrón, Raúl Valdez- Navarro, Alba Covelo-Villar, Miguel A. Hernández-Gallegos, Centro de Ingeniería de Superficies y Acabados (CENISA). Departamento de Ingeniería de, Diseño y Manufactura. División de Ingeniería Mecánica e Industrial. Facultad de Ingeniería., UNAM. 20 Nivel. Edificio "T" (Bernardo Quintana), Circuito Exterior, Ciudad Universitaria, Coyoacan, 04510, Ciudad de México

Javier Cervantes-Cabello, Centro de Ingeniería Avanzada, Departamento de Ingeniería de Diseño y Manufactura, División de Ingeniería Mecánica e Industrial, Edificio X. 20 Piso, Circuito Exterior, Ciudad Universitaria. Coyoacan, 04510, Ciudad de México

#### ID 91 The Soft Skills as a Drivers of Customer Service in the Automobile Dealers

Roxana Dalila Escamilla Vielma, Adriana Segovia-Romo, Jesús Fabián López, Faculty of Public Accounting and Administration-FACPYA,

Autonomous University of Nuevo León - UANL, Av. Universidad S/N col. Ciudad Universitaria, San Nicolas de los Garza, Nuevo León, México.

### ID 92 Research Mapping of Content Creator: Lesson from Bibliometric Analysis

Yanuarita Kusuma Permata Sari, Communication Science Department, Faculty of Economics and Communication, Bina Nusantara University, Jakarta 11480, Indonesia

Anom Surya Putra, PENABULU Research Institute, Tangerang Selatan, Banten, 15318, Indonesia

Agung Purnomo, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia

### ID 93 Incorporated Fuzzy Robust Principal Component Analysis with Context-Dependent Data Envelopment Analysis for an Advanced Decision Making Process

Fu-Hsiang Chen, Department of Accounting, Chinese Culture University, Taipei, Taiwan, R.O.C.

Te-Min Chang, Department of Information Management, National Sun Yat-sen University, Kaohsiung, Taiwan, R.O.C.

Hsueh-Li Huang, English Program of Global Business, Chinese Culture University, Taipei, Taiwan, R.O.C.

Sin-Jin Lin, Department of Accounting, Chinese Culture University, Taipei, Taiwan, R.O.C.

Ming-Fu Hsu, Department of Business Management, National United University, Miaoli, Taiwan, R.O.C.

Yu-Lin Huang, English Program of Global Business, Chinese Culture University, Taipei, Taiwan, R.O.C.

### ID 94 Curriculum Revision of a Ph.D. program in Technology Management to Keep it Relevant and Manageable

A. Mehran Shahhosseini, M. Affan Badar, Farman A. Moayed, James N. McKirahan, and Cindy L. Crowder, College of Technology, Indiana State University, Terre Haute, IN 47809, USA

#### ID 95 The Toyota Production System Principles and Behaviors in a Higher Education Institution Classroom

Fernando Gonzalez-Aleu, Department of Computer Systems and Industrial Engineering, Universidad de Monterrey, San Pedro Garza García, NL, 66238, México

Jesus Vazquez-Hernandez, Innovation and Strategy, Advanced Value Chain Institute, San Pedro Garza García, NL., 66250, Mexico

Mario Alberto Del Valle Velez, Vicepresidente, Asociación de Exbecarios de Mexico en Japón, Miguel Hidalgo, Ciudad de México, Mexico

### ID 96 Impact of organizational culture in shaping organizational citizenship behavior: case of five-year training for suppliers of international steel companies

María Mayela Terán Cázares, Investigation- Professor, Facultad De Contaduría Pública y Administración, Universidad Autónoma De Nuevo León, Av. Universidad s/n Cd. Universidad C.P. 66455. San Nicolás de los Garza, Nuevo León, México

Mónica Blanco Jiménez, Investigation- Professor, Facultad De Contaduría Pública y Administración, Universidad Autónoma De Nuevo León, Av. Universidad s/n Cd. Universidad C.P. 66455. San Nicolás de los Garza, Nuevo León, México

Blanca Nelly Rodríguez Garza, Professor, Facultad De Contaduría Pública y Administración, Universidad Autónoma De Nuevo León, Av. Universidad s/n Cd. Universidad C.P. 66455. San Nicolás de los Garza, Nuevo León, México

Ivon Abigail González Garza, Student, Facultad De Contaduría Pública y Administración, Universidad Autónoma De Nuevo León, Av. Universidad s/n Cd. Universidad C.P. 66455. San Nicolás de los Garza, Nuevo León, México

#### ID 97 An Analysis of Visual Subitization Across Different Modes of Peripheral Vision

Juni Kim, Stanford Online High School, Redwood City, CA 94063, USA

### ID 98 A Systematic Review on Factors Affecting Remote Working Employees During the COVID-19 Pandemic

Narmada Siyambalapitiya and Ruwan Wickramarachchi, Department of Industrial Management, University of Kelaniya, Sri Lanka

### ID 99 The Alternatives on Last Mile Delivery Logistics: Insights on Customers' Preferences

Bruna Meire Kuhl Gomes, Cassiana Teza, Gabriel Cassino, Rodrigo Luiz Gigante, Henrique Ewbank, Facens University, Sorocaba, SP, Brazil

### ID 100 Agile Management for Industrial Engineering Capstone Projects - Overcoming the COVID 19 challenge

Miguel Rocha, Edgar Barbosa and Carlos Gonzalez, Department of Industrial Engineering, Tecnológico de Monterrey, Querétaro, México

Cesar Vega, Tecnológico de Monterrey, Life and Career Center, Tecnológico de Monterrey, Querétaro, México

### ID 101 Development and Application of an e-Kanban System in the Automotive Industry

Bárbara Romeira, DEGEIT, University of Aveiro, Campus Universitário de Santiago 3810-193, Aveiro, Portugal

Francisco Cunha, FSC Consulting, Portugal

Ana Moura, GOVCOPP / DEGEIT, University of Aveiro, Campus Universitário de Santiago 3810-193, Aveiro, Portugal

### ID 105 A Systematic Review on Factors Affecting Lean Marketing Readiness in the Retail Sector in Sri Lanka

Apoorwama Illanganthilake, Ruwan Wickramarachchi, Department of Industrial Management, University of Kelaniya, Sri Lanka

### ID 110 Study of Implementation Planning of Electronic Road Pricing System on Jakarta

Andri Irfan Rifai, Faculty of Civil Engineering and Planing, University of Internasional Batam, Indonesia

Yasmin Ramadian, Muhammad Isradi, Amar Mufhidin, Faculty of Civil Engineering and Planing University of Mercubuana, Jakarta, Indonesia

### ID 111 Analysis of Pedestrian Services in Metropolitan Cities: Case of Jakarta Business Area

Andri Irfan Rifai, Faculty of Civil Engineering & Planning, University of Internasional Batam, Indonesia

Adinda Fajarika Akhir, Muhammad Isradi, Amar Mufhidin, Faculty of Civil Engineering & Planning, University of Mercu Buana Jakarta, Indonesia

### ID 112 Analysis Of Pavement Thickness Planning And Overlaying Method On Trans Sumatera Toll Road, Pekanbaru - Dumai

Muhammad Isradi, Joewono Prasetijo, Nurani Hartatik, Faculty of Engineering and Technology, University Tun Hussein Onn Malaysia, Malaysia

Indah Suryaningtyas, Widodo Budi Dermawan, Faculty of Engineering, University Mercu Buana Jakarta, Indonesia

Andri Irfan Rifai, Faculty of Civil Engineering and Planning, University of International Batam, Indonesia

### ID 113 The Influence of Technology-based PBL Learning Model, Learning Method, Learning Motivation on Entrepreneurship Attitudes in Economics Education Department students of STKIP PGRI Jombang

Munawaroh, Nanik Sri Setyani, and Lina Sulistyowati, Economic Education Department, STKIP PGRI Jombang Pattimura street III/20, Jombang-East Java, Indonesia

### ID 114 Language Mastering Reflected In The Speaking Skill Of Mentally Retarded Students at SLBN 1 JombangEast Java, Indonesia

Heny Sulistyowati1, Department of Indonesian Language Education, STKIP PGRI Tembelang, Indonesia

Muh Fajar, Department of English Language Education, STKIP PGRI Tembelang, Indonesia

### ID 115 Profile of Student's Mathematical Representation based on Teacher's Accepted-Promoted-action

Tria Rahayu, Jauhara Dian Nurul Iffah, and Wiwin Sri Hidayati, Matematics Education Master Program, STKIP PGRI Jombang, Jl. Pattimura III, Jombang 61471, Indonesia

#### ID 116 The Effect Of Disruptive Era And New Product On Innovative Product Launches

Yusuf Amrozi, Dwiky Arfiansyah Nugroho, Rike Excella Putri, Universitas Islam Negeri Sunan Ampel Surabaya, Surabaya, Indonesia

Joko Suyono, Narotama University, Surabaya, Indonesia

### ID 117 The Mediating Role of Work Environment in Relationship Between Leadership and Job Promotion on Employee Performance

Yohanes Sugiyanta, Joko Suyono, Narotama University, Surabaya, Indonesia

Damarsari Ratnasahara Elisabeth, Sekolah Tinggi Ilmu Ekonomi Mahardhika, Surabaya, Indonesia

Zulifah Chikmawati, Universitas Nadlatul Ulama Sidoarjo, Indonesia

Che Zalina Zulkifli, Universiti Pendidikan Sultan Idris, Malaysia

### ID 118 Organizational Factors Affecting the ISMS Effectiveness in Sri Lankan IT Organizations: A Systematic Review

K.M.N. De Abrew and Dr. Ruwan Wickramarachchi, Department of Industrial Management, University of Kelaniya, Sri Lanka

### ID 120 The Impact of Customer Loyalty and Satisfaction on Performance at a Lighting Company

Khathutshelo Mushavhanamadi, M. F. Hlengani, Department of Quality and Operation Management, University of Johannesburg, South Africa

### ID 121 The Impact of Project Governance on Project Delivery In The Enterprise Project Management Office Within South African Bank

Khathutshelo Mushavhanamadi, N.Phatlhane, Department of Quality and Operation Management, University of Johannesburg, South Africa

### ID 123 Standard Model Baby Incubator Product Development with Quality Function Deployment (QFD) Method and Simulation Application

Waluyo Prasetyo, Rina Sri Wulandari, Untung Usada, Agus Rachmad Purnama, Muhammad Mansur Yafi, Achmad Fauzi Alfaris, Industrial Engineering Department, Universitas Nahdlatul Ulama Sidoarjo, Sidoarjo, Indonesia

### ID 124 Design Of Feasibility Study Parameters For Selection Of B3 Waste Treatment Location In Bangkalan District

Rina Sri Wulandari, Waluyo Prasetyo, Luqman Hakim, Taqwanur, Industrial Engineering Department, Universitas Nahdlatul Ulama Sidoarjo, Sidoarjo, Indonesia

Medya Ayunda Fitri, Chemical Engineering Department, Universitas Nahdlatul Ulama Sidoarjo, Sidoarjo, Indonesia

### ID 125 Business process reengineering in public sector organizations: Systematic literature review of critical success factors

A.A.T.M. Amarasinghe, Ruwan Wickramarachchi, Department of Industrial Management, University of Kelaniya, Kelaniya, Sri Lanka

### ID 126 A Cost-Benefit Approach to Thermo-Processing Equipment Safety Regulation Analysis

Motshumi Joseph Diphare, Hannelie Nel and Jan-Harm C. Pretorius, Postgraduate School of Engineering Management, University of Johannesburg, Johannesburg, South Africa

### ID 128 Data Driven Supply Chain Optimization a Case Study

Sandra N. Garza Almazán and Edgar M.A. Granda Gutiérrez, Department of Engineering, Universidad de Monterrey, Monterrey, Nuevo León 66238, México

### ID 129 Determinant Factors for the Sustainability of SMEs in the Northern Mexican Restaurant Sector: A Documentary Perspective

Evelin Anahí Torres-Torres; Alfonso López-Lira Arjona; César Eduardo Perales Martínez, Ciencias económico y Administrativo, Facultad de Contaduría Pública y Administración, Av. Universidad s/n Cd. Universidad, San Nicolás de los Garza, Nuevo León, México.

#### ID 130 An Instrument to Measure Work Stress on Mexican Academic Staff

César Eduardo Perales Martínez, María Mayela Terán Cázares and Evelin Anahí Torres Torres, Centro de Desarrollo Empresarial y Posgrado de FACPyA, Universidad Autónoma de Nuevo León, Monterrey, México

#### ID 131 Analysis of Building Construction in a Colombian Case from a Total Quality Management Perspective

Julián David González Zapata, Bertha Viviana Ruales Guzmán, Lina Patricia Velasquez Mora, Department of Computer and Industrial Engineering, Universidad Nacional de Colombia, Bogotá D.C., Colombia

Laura Milena Hernández Castañeda, Department of Civil and Agricultural Engineering, Universidad Nacional de Colombia, Bogotá D.C., Colombia

### ID 132 A proposal for deep learning model development for pyuria detection

Sergio Eduardo Anaya Alvarez, Catalina de Léon Santos, Azael Jesus Cortes Capetillo, Jorge de J Lozoya-Santos, David Güemes-Castorena, Department of science and manufacturing, Tecnologico de Monterrey, School of Engineering and Sciences, Monterrey, N.L. 64849, México

### ID 133 Understanding Makerspaces' Goals and Success

Laura A. Valadez Rojas and Azael Capetillo, School of Engineering and Sciences, Tecnológico de Monterrey, Av. Eugenio Garza Sada 2501, Monterrey 64849, NL, México

### ID 134 Digital Competencies of University Teachers in Universities in the Times of Covid-19, Cusco-Perú, 2020

Elena Sonia Paula Espinoza Ríos, Felipe Néstor Gutarra Meza, Miriam Ingrid Espinoza Vilca Escuela Académico Profesional de Sistemas e Informática, Universidad Continental, Av. San Carlos 1980, Urb. San Antonio, Huancayo, Perú

Vilma Canahuire Montufar, Escuela Profesional de Ciencias Administrativas, Universidad Nacional de San Antonio Abad del Cusco, Cusco, Perú

### ID 135 Optimization of the Signal Noise Ratio index using Simultaneous Perturbation Stochastic Approximation Algorithm

Juan Carlos Castillo García, Jesús Everardo Olguín Tiznado, Faculty of Engineering, Architecture, and Design, Autonomous University of Baja California, Carretera Transpeninsular Ensenada - Tijuana No. 3917 Colonia Playitas, 22860 Ensenada, Baja California México.

Jorge Luis García Alcaraz, Jose Roberto Diaz Reza, Dept. of Industrial Engineering and Manufacturing, Autonomous University of Ciudad Juárez, Ciudad Juárez, México

Arturo Realyvasquez Vargas, Department of Industrial Engineering, Tecnológico Nacional de México/I.T. Tijuana, Tijuana, Baja California, México

Karina Cecilia Arredondo Soto, Chemical Sciences and Engineering Faculty, Universidad Autónoma de Baja California, Calzada Universidad 14418, Parque Industrial Internacional, Tijuana, Baja California 22390, Méxic

#### ID 136 Factors Affecting the Fresh Flower Cold Chain Logistics

Jirapat Wanitwattanakosol and Yuqin Zhou, College of Arts, Media and Technology, Chiang Mai University, Chiang Mai, 50200, Thailand

### ID 137 A layout design using a production line balancing approach

Marlene Brás, Department of Economics, Management, Industrial Engineering and Tourism, University of Aveiro, Aveiro, Portugal

Ana Moura, Department of Economics, Management, Industrial Engineering and Tourism, GOVCOPP - Systems for Decision Support Research Group, University of Aveiro, Aveiro, Portugal

#### ID 138 Proposals to Strengthen the Implementation of Quality Management in Higher Education

Catalina Torregrosa Morales, Bertha Viviana Ruales Guzmán, Brayan Camilo Vega Fuentes, Daniel Enrique Saavedra Castañeda, Systems and Industrial Engineering Department, Universidad Nacional de Colombia, Bogotá, Colombia

#### ID 139 Application of Agile Methodologies for Design and Development of HealthTech products: Bio Testing Device

Catalina de León Santos, Sergio Eduardo Anaya Alvarez, Azael Jesus Cortes Capetillo, David Güemes-Castorena, Jorge de-J Lozoya-Santos, Escuela de Ingeniería y Ciencias, Tecnologico de Monterrey, Monterrey, N.L. 64849, México

### ID 140 Science Fiction and Innovation: Prototyping the Future from Uncertainty

Sinai Galeana, Azael Capetillo and David Güemes-Castorena, School of Engineering and Sciences, Tecnologico de Monterrey, Av. Eugenio Garza Sada 2501 Sur, Tecnológico, 64849 Monterrey, N.L, México

### ID 141 Design of an Electronics Swapping System for Electric Guitars

Helgi S. Waage-Delgadillo, Rafael González-Parra, Alba Covelo, Miguel A. Hernandez, Raúl Valdéz and Arturo Barba-Pingarrón, Surface Engineering Center (CENISA) - Engineering Faculty, National Autonomous University of Mexico, Circuito Exterior. Ciudad Universitaria. 04510 CDMX

Jesús M. Dorador González, National School of Higher Studies - Engineering Faculty, National Autonomous University of Mexico, Juriquilla, Querétaro

### ID 142 Analysis of the Correlation Between Imposter Syndrome and Grade Level of Online High School Students

Ester Weinhardt, Stanford Online High School, Redwood City, 94063 CA

### ID 144 Evaluation Of The Feasibility Of Centralization Of Warehouses In The Construction Company VIDUSA

Ana Paula Ocañas Morales, Brando M. Rodríguez Vallejo, Ricardo C. Lozano Cantú, Business Management Engineering, Industrial and Systems Engineering, University of Monterrey, México

Refugio Chávez Hernández, Doctorate in Supply Chain Management and Logistics, University of Monterrey, México.

#### ID 145 Strategic Value Propositions to Increase Competitiveness in a Tourism Cluster

Teresa Verduzco-Garza, Industrial Engineering, Engineering School, University of Monterrey UDEM, San Pedro Garza Garcia, NL, México

J. Gerardo Rodríguez Beltrán and José Pablo Nuño de la Parra, Popular Autonomous University of Puebla UPAEP Puebla, Pue, Mexico

### ID 146 Establishing Risks of Food Supply Chains for Small and Medium Food Manufacturing Companies in Malaysia

Siti Aishah Hadawiah Ahmad and Mohd Nizam Ab Rahman, Department of Mechanical and Manufacturing, The National University of Malaysia, Selangor, Malaysia

Ariff Azly Mohamed, Department of Business and Management, Universiti Teknologi Mara, Selangor, Malaysia

### ID 147 The Impact of the Use of Power on Supplier Integration in Different Cultural Settings: A Conceptual Investigation

Tesfaye Tolu Feyissa, Assistant Professor, Defense University, Bishoftu, Ethiopia.

Anjali Sharma, Dept. of Industrial & Management Eng, Indian Institute of Technology-Kanpur, U.P. -208016, India

R.R.K. Sharma, Professor, Department of Industrial and Management Engineering, Indian Institute of Technology, Kanpur, 208 016, UP, India.

### ID 148 Total Quality Management, Just In Time And Its Impact On Supply Chain Management In Manufacturing Companies

Diana Maricela Vasquez Treviño, Mónica Blanco Jiménez, Jesús Fabián López Pérez, Sergio Armando Guerra Moya, Facultad de Contaduría Pública y Administración , Universidad Autónoma de Nuevo León, Cd. Universitaria, N.L. México

#### ID 149 Real fuel consumption in the main logistic corridors of Colombia

José I. Huertasa and Oscar Serrano-Guevaraa, Energy and Climate Change Research Group, School of Engineering and Sciences, Tecnologico de Monterrey, Monterrey, Mexico

Oscar Serrano-Guevaraa, Energy and Climate Change Research Group, School of Engineering and Sciences, Tecnologico de Monterrey, Monterrey, Mexico

Jenny Díaz-Ramírez, Department of Engineering, Universidad de Monterrey, Monterrey, México and Connected Fleet Department, Michelin, Bogotá, Colombia

Daniel Pratoc, Innovation department, Latin American Center for Innovation in Logistics - CLI - Logyca, Bogotá, Colombia

Lina Tabaresd, Connected Fleet Department, Michelin, Bogotá, Colombia

#### ID 150 Designing a Data Governance Model to Implement GDPR in Sri Lankan Enterprises

P.A. Indhumini Ranathunga, Department of Industrial Management, Faculty of Science, University of Kelaniya, Sri Lanka

Dr. Ruwan Wickramarachchi, Senior Lecturer, Department of Industrial Management, Faculty of Science, University of Kelaniya, Sri Lanka

### ID 151 The Factors that Impact the Internationalization of the Artisanal SMES of the Citrus Region of the State of Nuevo León (Theoretical Framework)

Yamileth Aguilar García and Diana Maricela Vasquez Treviño, Facultad de Contaduría Pública y Administración, Universidad Autónoma de Nuevo León, Ciudad Universitaria, San Nicolás de los Garza, NL.

Mónica Blanco Jiménez, Facultad de Contaduría Pública y Administración, Universidad Autónoma de Nuevo León, Ciudad Universitaria, San Nicolás de los Garza, NL.

Juan Patricio Galindo Mora, Facultad de Contaduría Pública y Administración, Universidad Autónoma de Nuevo León, Ciudad Universitaria, San Nicolás de los Garza, NL

### ID 152 The Effect Of Work Discipline And Motivation On Employee Performance In Commercial Department Pt. Smartfren Telecom Tbk Jakarta

Yhonanda Harsono, Management Departement Universitas Pamulang Tangerang Selatan, Indonesia

Munarsih, Management Departement Universitas Pamulang Tangerang Selatan, Indonesia

Ridhwan Noor Alam, Management Departement Universitas Pamulang Tangerang Selatan, Indonesia

Ria Estiana, Business Administration Departement Polytechnic LP3I Jakarta, Indonesia

Nurul Giswi Karomah, Business Administration Departement Polytechnic LP3I Jakarta, Indonesia

### ID 153 Participatory Ergonomics in a Manufacturing Company in Peru

María Teresa Noriega Araníbar and Bertha Díaz Garay, Industrial Engineering Program Universidad de Lima, Surco, Lima, Perú

### ID 161 The Influence of Entrepreneurial Orientation on Competitive Advantage and Company Performance

M. Sulhan, Yudharta University of Pasuruan, Indonesia

Wahyu Astutik, College of Administrative Sciences Panglima Sudirman Surabaya

Dodik Wahyono, College of Administrative Sciences Panglima Sudirman Surabaya

Muhammad Arifin, College of Administrative Sciences Panglima Sudirman Surabaya

Moh. Mukhrojin, College of Administrative Sciences Panglima Sudirman Surabaya

#### ID 162 Evaluation of an electric go-kart with lithium-ion and nickel-metal hydride batteries

Gustavo Alvarez-Coello, ERGON - Automotive Engineering Research and Development Center, Universidad del Azuay, Cuenca, Ecuador

Andrés Idrovo-Pauta

Daniel Cordero-Moreno

Efrén Fernández-Palomeque

### ID 163 Development of E-Learning Learning Media Using Google Classroom In Indonesian Subjects (Biographical Text) Misbahul Munir, Universitas Negeri Jakarta

Endry Boeriswati, Universitas Negeri Jakarta

Gusti Yarmi, Universitas Negeri Jakarta

### **ID 164** Searching for Key Topics around Artificial Intelligence and Machine Learning as a Process Optimization Driver Federico Walas Mateo, Universidad Nacional Arturo Jauretche, Buenos Aires, Argentina

Andres Redchuk, Universidad Nacional de Lomas de Zamora. Facultad de Ingeniería. Buenos Aires, Argentina. ETSII. Universidad Rey Juan Carlos. Madrid. España

### ID 165 Performance and Emission Characteristics of Diesel-Biodiesel-Ethanol Blends in a Heavy-Duty Compression Ignition Engine at Simulated High Altitudes

Julio C. Cuisano and Soin E. Puma, Mechanical Department of Engineering Faculty, Pontificia Universidad Católica del Perú, Lima, Perú

### ID 166 Developing a Performance Measurement Framework for Logistics Service Providers

Paitoon Varadejsatitwong, Thammasat Business School, Thammasat University, Bangkok, Thailand

Ruth Banomyong, Dean, Thammasat Business School, Thammasat University, Bangkok, Thailand

Puthipong Julagasigorn, Thammasat Business School, Thammasat University, Bangkok, Thailand

### ID 168 Methodology to assess sustainable mobility in LATAM cities

José I. Huertas, Oscar S. Serrano, Antonio E. Mogro, and Duván A. Alvarado, School of Engineering and Science, Tecnologico de Monterrey, Monterrey, Mexico

Sonja Stöffler, Institute of Human Factors and Technology Management IAT, University of Stuttgart, Stuttgart, Germany

Trinidad Fernández, Fraunhofer Institute for Industrial Engineering IAO, Stuttgart, Germany

Xanin García and Roberto Castañeda, Instituto Municipal de Planeación Saltillo-IMPLAN, Saltillo, México

### ID 169 Measurement of the adaptability of practical learning units to the non-school modality

Arlethe Yarí Aguilar Villarreal, Cinthya Rocío Ramos Jiménez, Héctor Fabián Dávila García, Enrique Estanislao Ortiz Fuentes, Universidad Autónoma de Nuevo León, Facultad de Ciencias Químicas, Ave. Universidad S/N Cd. Universitaria, San Nicolás de los Garza Nuevo León

### ID 170 Digital Age Education and its Applications in Higher Education

Nisaul Barokati Seliro Wangi, Universitas Islam Darul U'lum Lamongan

Winci Firdaus, Badan Pengembangan dan Pembinaan Bahasa

Ryan Angga Pratama, Balikpapan University

Yogi Purnama, Universitas Indraprasta PGRI

Edwar Kemal, STKIP PGRI Sumbar

### ID 171 Android-Based Interactive Multimedia Development Integration Of Poetry Text Material With Islamic Values

Tuti Kusniarti, Universitas Muhammadiyah Malang

Dina Putri Juni Astuti, IAIN Bengkulu

Wahyudi Rahmat, STKIP PGRI Sumatera Barat

Samsiarni, STKIP PGRI Sumatera Barat

Aruna Laila, STKIP PGRI Sumbar

#### ID 172 Investigation of Early Study Stage for Young Researcher

Diah Ambarumi Munawaroh, Instructional Technology Department, Universitas Negeri Malang, Indonesia, cvsafeerana@gmail.com

I Nyoman Sudana Degeng, Instructional Technology Department, Universitas Negeri Malang, Indonesia, nyomandegeng@gmail.com

Henry Praherdiono, Instructional Technology Department, Universitas Negeri Malang, Indonesia, praherdiono@gmail.com

Dedi Kusnadi, Instructional Technology Department, Universitas Negeri Malang, Indonesia

### ID 173 The Pyramid of Political Power as Mataraman Community Identity in Kediri Indonesia

Taufik Alamin, Brawijaya University Malang

Darsono Wisadirana, Brawijaya University Malang

Sanggar Kanto, Brawijaya University Malang

Hilmy Mochta, Brawijaya University Malang

Wawan Sobari, Brawijaya University Malang

### ID 174 The Influence Of "Ruang Guru" Platform Learning Model On The Learning Outcomes

Nisaul Barokati Seliro Wangi, Universitas Islam Darul U'lum Lamongan

Deden, Balikpapan University

Nurlia Latipah, IAIN Bengkulu

Ikke Wulan Dari, IAIN Bengkulu

Akhirudin, IAIN Bengkulu

### ID 175 Development of Learning Media Text Tutorials Video-Based Procedures Screencast O Matic

Hetilaniar, Universitas PGRI Palembang

Nisaul Barokati Seliro Wangi, Universitas Islam Darul U'lum Lamongan

Dian Jelita, IAIN Bengkulu

Suantoko, Universitas PGRI Ronggolawe

### ID 176 Development Of Text Negotiation Learning Using Edmodo

Muh Barid Nizarudin Wajdi, STAI Miftahul Ula Nganjuk, Indonesia

Winci Firdaus, Badan Pengembangan dan Pembinaan Bahasa

Franscy, Universitas Panca Sakti Bekasi, Indonesia

Idhofiyatul Fathin, Sekolah Tinggi Ilmu Ekonomi Semarang

Muthia Damayanti, Politeknik Negeri Padang

### ID 177 Execution of Information Technology (IT) in Education Marketing

Yusuf Hamidi, STAI Darussalam Krempyang Nganjuk, Indonesia

Natoil, Sekolah Tinggi Ilmu Ekonomi Semarang

Siti Rochmah, Sekolah Tinggi Ilmu Ekonomi Semarang

Fidyah Yuli Ernawati, Sekolah Tinggi Ilmu Ekonomi Semarang

Siti Aniqoh Shofwani, Sekolah Tinggi Ilmu Ekonomi Semarang

### ID 178 Finding the path to smart mobility: Design of bike routes for university districts

Ing. Daniela Ocaciones Mejía, Escuela de Ingeniería y Ciencias, Tecnológico de Monterrey, Monterrey, México

Ph.D. José Ignacio Huertas Cardozo, Escuela de Ingeniería y Ciencias, Tecnológico de Monterrey, Monterrey, México

Ph.D. Monica Moreno, Decision Sciences Department, MacEwan University, Edmonton, Canada

Juan Alberto Estrada García, Ingeniería en Gestión Empresarial, Universidad de Monterrey, Monterrey, México

### ID 179 Managing Islamic Elementary Students' Reading Skill through SQ3R Strategy

Yuli Ani Setyo Dewi, Sekolah Tinggi Ilmu Tarbiyah NU Al Hikmah Mojokerto

Indrya Mulyaningsih, Institut Agama Islam Negeri Syekh Nurjati Cirebon

Winci Firdaus, Badan Pengembangan dan Pembinaan Bahasa

Ixsir Eliya, IAIN Bengkulu

Vita ika sari, universitas pancasakti tegal

### ID 180 Management of Information and Communication Technology (ICT) Learning Packages

Riza Faishol, Institute Agama Islam (IAI) Ibrahimy Genteng Banyuwangi, Indonesia

Syihaabul Hudaa, Institut Teknologi dan Bisnis Ahmad Dahlan Jakarta

Asrizal Wahdan Wilsa, STKIP NU Indramayu

Kiftian Hady Prasetya, Universitas Balikpapan

Ari Musdolifah, Universitas Balikpapan

### ID 181 Coordinating Gamification in a Blended Learning Entrepreneurship Course: Discussing Student Learning and Achievement Motivation

Nisaul Barokati Seliro Wangi, Universitas Islam Darul 'Ulum Lamongan, Indonesia

Ulfah Mey Lida, IAIN Kudus, Indonesia

Veni Nurpadillah, IAIN Cirebon, Indonesia

Yunita Suryani, Universitas PGRI Ronggolawe, Indonesia

Ninik Mardiana, University Dr. Soetomo Surabaya, Indonesia

#### ID 182 Arranging the Reliable and Valid Assessment's Instrument for Business Model Canvas Comprehension

Nisaul Barokati Seliro Wangi, Universitas Islam Darul 'Ulum Lamongan, Indonesia

Rokhmad Budiyono, Sekolah Tinggi Ilmu Ekonomi Semarang

Dwi Novaria, IAIN Pekalongan

Ratna Nurdiana, Universitas PGRI ADIBUANA Surabaya

Ahmad Hariyadi, IKIP PGRI Bojonegoro

### ID 183 Information Systems in Digital Transformation: Practical case in an automotive industry company and Critical Success Factors

Ana Inês Ribas, Department of Economics, Management, Industrial Engineering and Tourism (DEGEIT), University of Aveiro 3810–193, Aveiro, Portugal

Leonor Teixeira, Institute of Electronics and Informatics Engineering of Aveiro (IEETA), Department of Economics, Management, Industrial Engineering and Tourism (DEGEIT), University of Aveiro 3810–193, Aveiro, Portugal

### ID 184 New developments on the geometry of the Traveling Salesperson Problem

Federico Trigos, EGADE Business School, Tecnologico de Monterrey, San Pedro Garza García, NL 66269, Mexico

Javier Gonzalez-Sanchez, School of Computing, Informatics, and Decision Systems Engineering, Arizona State University, Tempe, AZ 85281, USA

Adrian Ramirez-Nafarrate, Facultad de Ciencias Economicas y Empresariales, Universidad Panamericana, Zapopan, Jal 45010, Mexico

### ID 185 Impact of Material and Labour Cost Overruns on Contractors' Budgeted Cost: The Case of Building Construction Projects in Sri Lanka

R.D.W.W. Jayathilaka, K.G.A.S. Waidyasekara and D.C. Sirimewan, Department of Building Economics, University of Moratuwa, Sri Lanka

### ID 186 Application of Lean Manufacturing tools to decrease non-conforming products in a zinc refinery

Alberto Flores-Pérez, Juan Quiroz-Flores and Martín Collao-Diaz, Facultad de Ingeniería y Arquitectura, Universidad de Lima, Lima, Perú

Iván De Fuentes Pérez, Independent mechanical project consultant, Industrial Engineering Program, University of Applied Sciences, Perú

### ID 187 Technology Acceptance Model to Solve Mobile Payment Problem for SMEs

Inayatulloh, Information Systems Department, School of Information system, Bina Nusantara University, Jakarta, Indonesia 11480

Destiana Kumala Sekolah Tinggi Ekonomi Bisnis Islam Syariah Bina Mandiri, Jakarta, Indonesia 11480

Hendra Alianto Information System Department School of Information System Bina Nusantara University, Jakarta, Indonesia

Prasetya Cahya Saputra Information Systems Department School of Information system Bina Nusantara University Jakarta, Indonesia 11480

Rivaldhy N. Muhammad, Study Program of Law, Faculty of Law, Social and Political Sciences, Terbuka University, Indonesia

#### ID 188 Technology Acceptance Model to Solve E-Learning Problem for Teacher in School

Inayatulloh, Information Systems Department, School of Information system, Bina Nusantara University, Jakarta, Indonesia 11480

Yenny Desnelita, Institut Bisnis dan Teknologi Pelita, Pekanbaru, Indonesia

Eka Sasmita Mulya, Civil Engineering, Politeknik Negeri, Jakarta, Depok Indonesia

Hendra Alianto, Information System Department, School of Information System, Bina Nusantara University, Jakarta, Indonesia

#### ID 189 Human Resources Management System Model Base on Open Source and Cloud Computing for SMEs

Inayatulloh, Information Systems Department, School of Information system, Bina Nusantara University, Jakarta, Indonesia

Rajiv Dharma Mangruwa, Communication and Business-Telkom University, Bandung, Indonesia, Azman Hashim International Business School - University of Technology Malaysia, Malaysia

Sugeng Riyanto, STIE Pertiwi, Bekasi, Indonesia

#### ID 192 Measuring the Risk Level of Employees for COVID-19: A Case in Government Sector

Anthony Sanchez, Jerome Liwanag, Wajid Mariño, Ma. Janice J. Gumasing, School of Industrial Engineering and Engineering Management, Mapua University, Muralla St., Intramuros, Manila, 1002

#### ID 193 A Risk Level Assessment of Food Delivery Riders for COVID-19

Lorenzo T. Caday, Krisanta Ana E. Draculan, Kianna Denise C. Villapando, Ma. Janice J. Gumasing, School of Industrial Engineering and Engineering Management, Mapua University, Muralla St., Intramuros, Manila, 1002

#### ID 194 Time duration of a driving cycle and its representativeness

Michael Giraldo, Mechanical engineering department, Universidad EAFIT, Medellin, Colombia

Luis F. Quirama and Juan E. Tibaquirá, Mechanical engineering department, Universidad Tecnológica de Pereira, Pereira, Colombia

José I. Huertas, Mechanical engineering department, Tecnológico de Monterrey, Monterrey, México

### ID 195 Increasing Profitability Through the Implementation of an Integrated Balance Score Card -Objectives Key Results Model in a Digital Agency: The Peruvian Case

Iyari Rojas-Chipana, Nicolas Aguilar-Pelizzoli, Juan Carlos Quiroz-Flores, Martín Collao-Diaz and Alberto Flores-Perez, Facultad de Ingeniería y Arquitectura, Universidad de Lima, Lima, Perú

### ID 196 Order Picking Improvement through Storage Assignment Optimization and Human Error Identification: A Case Study of Automobile Seat Manufacturer

Niniet Indah Arvitrida, Muhammad Andhika Adiwidya, Department of Industrial and Systems Engineering, Institut Teknologi Sepuluh Nopember, Surabaya 60111, Indonesia

#### ID 197 An Overview of the Factors Affecting the E-commerce Readiness of SMEs in Sri Lanka

Hansika Kelambi Arachchige, Department of Industrial Management, University of Kelaniya, Sri Lanka

Ruwan Wickramarachchi, Department of Industrial Management, University of Kelaniya, Sri Lanka

#### ID 198 An integrated and comprehensive tool to assess urban mobility strategies

Jose I. Huertas and Maria E. Huertas, School of Engineering and Science, Tecnologico de Monterrey, Av. Garza Sada 2501, Mexico

#### ID 199 Factors of the E-commerce that are Directly Related to the Consumer's Purchase Motivation in Nuevo León, Mexico

Valentín Lara-Jiménez , Carolina Solís-Peña, UANL School of Chemical Sciences, Universidad Autónoma de Nuevo León, San Nicolás de los Garza, NL 66451, México

Federico G. Figueroa-Garza & Abel Partida-Puente, UANL School of Business, Universidad Autónoma de Nuevo León, San Nicolás de los Garza, NL 66451, México

### ID 200 Determination of Factors for Sustainability in Resilient Supply Chain in the Automotive Component Manufacture Industry

Carolina Solís Peña, Valentín Lara Jiménez, Juan Manuel Hernández Ramos & Mónica Blanco Jiménez, Industrial Engineering Administration, University of Nuevo Leon, San Nicolás de los Garza, Nuevo León, 66460, México

#### ID 203 Quality 4.0: Entity Relationship Model for inspection and repair processes in Aerospace domain

Ramy M. Khalifa, Department of Mathematics and Industrial Engineering, École Polytechnique de Montréal, Montréal, Québec, Canada

Department of Mechanical Design, Faculty of Engineering, Helwan University, Cairo, Egypt

Soumaya Yacout, Department of Mathematics and Industrial Engineering, École Polytechnique de Montréal ,Montréal, Québec,

Samuel Bassetto, Department of Mathematics and Industrial Engineering, École Polytechnique de Montréal, Montréal, Québec, Canada

### ID 204 The Production Planning Practices and Techniques Impact on Operational Costs in South African Manufacturing industries

Selowa Brian Tumiso, Quality and Operations Management Department, University of Johannesburg, South Africa

Bakama Eric Mikobi, Quality and Operations Management Department, University of Johannesburg, South Africa

Dr. Khathutshelo Mushavhanamadi, Quality and Operations Management Department, University of Johannesburg, South Africa

#### ID 205 The Impact of Adopting Total Quality management Practices on South African SME's Performance

Silima Tshenzhemo Neo, Quality and operations management Department, University of Johannesburg

Bakama Eric Mikobi, Quality and operations management Department, University of Johannesburg

Dr. Khathutshelo Mushavhanamadi, Quality and operations management Department, University of Johannesburg

#### ID 206 How can BPM and Lean practices accelerate digital transformation? Evidence based on a practical case

Mariana Carvalho, Department of Economics, Management, Industrial Engineering and Tourism (DEGEIT), University of Aveiro, 3810–193, Aveiro, Portugal

Leonor Teixeira, Institute of Electronics and Informatics Engineering of Aveiro (IEETA), Department of Economics, Management, Industrial Engineering and Tourism (DEGEIT), University of Aveiro 3810–193, Aveiro, Portugal

#### ID 207 Smart Warning system for the Rotating parts based on Cloud Computing

Amr Mohamed Ali, Department of Mechanical Design Engineering Faculty of Engineering, Helwan University, Cairo, Egypt

Soumaya Yacout, Department of Mathematic and Industrial Engineering, École Polytechnique, Montréal, Québec, Canada

El-Adl Eladl Rabeih, Department of Mechanical Design Engineering Faculty of Engineering, Helwan University, Cairo, Egypt

Yasser Shaban, Department of Mechanical Design Engineering Faculty of Engineering, Helwan University, Cairo, Egypt

#### ID 208 Bond Graphs for Manufacturing Control: Model's Improvement

Arthur Sarro Maluf, Production Engineering Department, Federal University of São Carlos, São Carlos, Brazil

Juliana Keiko Sagawa, Production Engineering Department, Federal University of São Carlos, São Carlos, Brazil

Maíra Martins Da Silva, Mechanical Engineering Department, University of São Paulo, São Carlos, Brazil

#### ID 209 Digitizing a Daily Continuous Improvement System: A Practical Case in a Portuguese Company

Luís Franco, Department of Economics, Management, Industrial Engineering and Tourism (DEGEIT), University of Aveiro, Aveiro Portugal

Juliana Salvadorinho, Department of Economics, Management, Industrial Engineering and Tourism (DEGEIT), University of Aveiro, Aveiro Portugal

Leonor Teixeira, Institute of Electronics and Informatics Engineering of Aveiro (IEETA), Department of Department of Economics, Management, Industrial Engineering and Tourism (DEGEIT), University of Aveiro, Aveiro Portugal

#### ID 210 Optimization of shift scheduling for medical staff: an application in the Outpatient Servuccion

Hernando Garzón Saenz, CIPTEC research group - Faculty of Engineering - Technology Program in Industrial Production Fundacion Universitaria Tecnologico Comfenalco, Cartagena de Indias, Colombia

Andrés Redchuk, ETSII. Department of Computer Sciences. University Rey Juan Carlos. Madrid. Spain Director of Operational Excellence and Process Improvement Institute. School of Engineer, University of Lomas de Zamora. Argentina. Department of Computer Sciences. University Rey Juan Carlos. Madrid. Spain

#### ID 211 Process Improvement for High Precision Components at Medical Devices Company (MDC)

Gamaliel Negrón Guzmán, Joshua Ríos Vachier and Jannette Pérez-Barbosa, Department of Engineering, Universidad Ana G. Méndez,

Gurabo, Puerto Rico 00778, USA

### ID 212 IoT enabled indoor air quality monitoring system for sustainable health management in an industry laboratory, a case study

Nicolas Ferreira, Mechatronics Engineering Department, Universidad del Cono Sur de las Américas, Asunción, PARAGUAY

Matias Sanchez, Electronics Engineering Department, Universidad Politécnica y Artística del Paraguay, Asunción, PARAGUAY

Walter López, Industrial Safety Management, PETROPAR, Villa Elisa, PARAGUAY

#### ID 213 Processed Food Imports that Improve Company Competitiveness in Emerging Countries

Monica Blanco-Jimenez, Angelica Tejeda-Villanueva, Diana M. Vasquez-Treviño, Maria de Jesus Araiza Vazquez, Facultad de Contaduría Pública y Administración, Universidad Autónoma de Nuevo León, San Nicolas de los Garza, Nuevo León, México

#### ID 214 Productivity Improvement in a Sugar Company: A Lean management approach

Maximiliano Arroyo Ulloa, Faculty of Engineering, Universidad Católica Santo Toribio de Mogrovejo, Chiclayo, Peru

Lucio Llontop Mendoza, Universidad Católica Santo Toribio de Mogrovejo, Chiclayo, Peru, Lima, Peru

Javier Beltran Reyes, Business Intelligence Department, Comercio-Group, Lima, Peru

#### ID 215 Making Monterrey an example of sustainable mobility based on electric bicycles

José Ignacio Huertas, School of Science and Engineering, Tecnologico de Monterrey, Monterrey, NL 64849, México

David Mastrascusa, School of Science and Engineering, Tecnologico de Monterrey, Monterrey, NL 64849, México

#### ID 217 Supporting digital transformation using Business Process Management: Proposal of a digital tool

Márcia Silva, Department of Economics, Management, Industrial Engineering and Tourism (DEGEIT), University of Aveiro, Aveiro, Portugal

Maria João Rosa, Centre for Research in Higher Education Policies (CIPES), Department of Economics, Management, Industrial Engineering and Tourism (DEGEIT), University of Aveiro 3810–193, Aveiro, Portugal

Leonor Teixeira, Institute of Electronics and Informatics Engineering of Aveiro (IEETA), Department of Economics, Management, Industrial Engineering and Tourism (DEGEIT), University of Aveiro 3810–193, Aveiro, Portugal

#### ID 218 A new model for identifying, capturing and transmitting knowledge: A proposal based on practical experience

Luís Gomes, Department Economics, Management, Industrial Engineering and Tourism (DEGEIT), University of Aveiro, 3810–193, Aveiro, Portugal

Leonor Teixeira, Institute of Electronics and Informatics Engineering of Aveiro (IEETA), Department of Economics, Management, Industrial Engineering and Tourism (DEGEIT), University of Aveiro, 3810–193, Aveiro, Portugal

#### ID 219 CONCENTRACIONES DE CALCIO Y ALGINATO PARA LA ESFERIFICACIÓN INVERSA

Christian Oswaldo Saba Gayoso, Fraunhofer Institute for Industrial Engineering IAO Germany Bastian Pokorni, Fraunhofer Institute for Industrial Engineering IAO, Germany

#### ID 220 PROCESS TO DELAY HYPALON WASTAGE

Resista Vikaliana, UTHM Indonesia RAJA ZURAIDAH RAJA MOHD RASI UTHM, Malaysia I Nyoman Pujawan, Sepuluh Nopember Institute of Technology Indonesia Irwansyah Irwansyah, Departemen Manajemen, STIES Gasantara Indonesia

#### ID 221 WINE PRODUCTION WITH FROZEN GRAPES

Esra Agca Aktunc, Kadir Has University, Turkey

### ID 222 Electromagnetic and Thermal Performances of Multi U and V Layer Magnet of Permanent Magnet Assistant Synchronous Motor for Electric Vehicles

Bui Minh Dinh, Hanoi University of Science and Technology

Ho Manh Tien, Faculty of Electrical-Electronic Engineering, University of Transport and Communications (UTC)

#### ID 223 RRU 5G 8T8R Heatsink Embedded Vapor Chamber and Heat pipe Assemlies

Minh Dinh Bui, Hanoi University of Science and Technology, No 1, Dai Co Viet street, Hai Ba Trung district, Ha Noi

Duc-Thinh Nguyen, Quoc Hung Nguyen and Van Manh Khong, Department of Mechanical Engineering, Viettel High Technology Industries Corporation, Hanoi, Vietnam.

#### ID 224 Simulation and Analysis of the Actuation System in a Camless Piston Engine

Andrés M. Sada-Regalado, David F. Novella-Rodriguez and Juan C. Tudon Martínez, Universidad de Monterrey, School of Engineering and Technologies, 66238 San Pedro Garza García, Nuevo León, México

#### ID 225 Comparison of Behavioral Customer Segmentations for Private Labels using Clustering Algorithms

Carlos Hernández, Departamento de Procesos Industriales, Universidad Católica de Temuco, Temuco, Chile Magaly Sandoval, Departamento de Ingeniería Industrial y Sistemas, Universidad de La Frontera, Temuco, Chile

#### ID 226 Behavioral Segmentation for Supermarket Customers Using Unsupervised Machine Learning Algorithms

Carlos Hernández, Departamento de Procesos Industriales, Universidad Católica de Temuco, Temuco, Chile Galo Paiva, Departamento de Ingeniería Industrial y Sistemas, Universidad de La Frontera, Temuco, Chile

#### ID 227 Technology innovation in supply chain logistics: A Structured Literature Review (2003–2019)

Hilda Kundai Chikwanda and Andile LN Zulu, Graduate School of Technology Management (GSTM), Faculty of Engineering, Built Environment and Information Technology, University of Pretoria, Pretoria, South Africa

### ID 228 Non-homogeneous Poisson Process modelling to determine the reliability and failure cost of locomotives during the warranty phase: A study of the South African Railway

B.B.S. Makhanya, H. Nel and J. H.C Pretorius, Faculty of Engineering and Built Environment University of Johannesburg, Johannesburg, Gauteng, South Africa

#### ID 229 Implementation of Six Sigma as Quality Improvement in a South African Municipality

Paul Makibelo, Bheki Makhanya and Hannelie Nel, Department of Engineering Management, University of Johannesburg, South

#### ID 230 Optimal Body-In-White Dimensional Quality Management in the Body Shop Area in a Car Manufacturing Plant

Sivuyile E. Gayiya, Bheki Makhanya and Hannelie Nel, Faculty of Engineering and Built Environment University of Johannesburg, Johannesburg, Gauteng, South Africa

#### ID 244 Optimization of Oil Well Production Using Binary Programming Method: Case Study Offshore Platform

Deni Ahmad Taufik, Master of Industrial Engineering Student, Universitas Mercu Buana, Kembangan, Jakarta, Indonesia

Choesnul Jaqin, Master of Industrial Engineering Department, Universitas Mercu Buana, Kembangan, Jakarta, Indonesia

Humiras Hardi Purba, Master of Industrial Engineering Department, Universitas Mercu Buana, Kembangan, Jakarta, Indonesia

#### ID 245 Biodynamic Suspension Model in a Comfort-Oriented QoV Control System

Abelardo Rodriguez-Moreno, E.A. Sánchez-Segoviano, L.A. Santa Cruz, and L.C. Félix-Herrán, School of Engineering and Sciences, Tecnologico de Monterrey, Hermosillo, SON, 83000, Mexico

Jorge de-J. Lozoya-Santos, School of Engineering and Sciences, Tecnologico de Monterrey, Monterrey, NL, 64849, Mexico

Juan C. Tudón-Martínez, División de Ingeniería y Tecnología, Universidad de Monterrey, Monterrey, NL, 66238, México

#### ID 246 Risk Management Strategies in the Engineering Design of Megaprojects

Nosipho L. Malope, Hannelie Nel, Department of Engineering Management, University of Johannesburg, 37 Bunting road, 2093, Johannesburg, South Africa

#### ID 247 Qualitative Assessment of Bioaerosol and Improvement of Indoor Air Quality of Grocery Store in Tuguegarao City

Janus Clifford R. Calagui, Juan Fernando C. Consuegra, Lemuel A. Plaza, John Vergel S. Quising, School of Mechanical and Manufacturing Engineering, Mapua University, Muralla St., Intramuros, Manila, Philippines 1002

Ma. Janice J. Gumasing, School of Industrial Engineering and Engineering Management, Mapua University, Muralla St., Intramuros, Manila, Philippines

#### ID 248 Design and Fabrication of a Human-Powered Vacuum System for Milking Carabaos and Cows

Ron Paulo D. Cueto, Chris Anthony B. Javier, Daniel A. Pangilinan, Joshua H. Santos, Isla F. Igmedio, Jr., School of Mechanical and Manufacturing Engineering, Mapua University, Muralla St., Intramuros, Manila, Philippines 1002

Ma. Janice J. Gumasing, School of Industrial Engineering and Engineering Management, Mapua University, Intramuros, Manila, Philippines

#### ID 249 Assessment of Indoor Air Quality of Modernized Jeepney in Manila

Arch Joseph V. Ayala, Bon Kenoh R. Fernando, John Luis G. Joven, John Jerry B. Soreta, Engr. Ricky D. Umali

School of Mechanical and Manufacturing Engineering, Mapua University, Muralla St., Intramuros, Manila, Philippines 1002

Ma. Janice J. Gumasing, School of Industrial Engineering and Engineering Management, Mapua University, Muralla St., Intramuros, Manila, Philippines

#### ID 250 Ergonomic Design of Taho Cart with Shock Absorber System

Jared Elias G. Baltazar, Marwin C. Bontes II, John Carl R. Narvarte, Gio Justin V. Reyes, Jaime Honra, Ph.D., School of Mechanical and Manufacturing Engineering, Mapua University, Muralla St., Intramuros, Manila, Philippines 1002

Ma. Janice J. Gumasing, School of Industrial Engineering and Engineering Management, Mapua University, Muralla St., Intramuros, Manila, Philippines 1002

#### ID 251 Applying Clustering Algorithm on Poverty Analysis in a Community in the Philippines

Michelle P. Repollo, School of Information Technology, Mapua University, Manila, Philippines

Rex Aurelius C. Robielos, School of Industrial Engineering and Engineering Management, Mapua University, Manila, Philippines

#### ID 253 Strategies to Improve the Logistics of a COVID-19 Screening Process within a Lean Six Sigma Framework

Jeanne-Marie Lawrence, Teaching Instructor, Department of Technology Systems, College of Engineering and Technology, East Carolina University, Greenville, NC 27858, USA

#### ID 254 Information System Plan for Chew & Brew Milk Tea Company (A Case Study)

Karina Dizon, Dave Pagaduan, David Quindoza, Raphael Tandoc, Grace Lorraine Intal, School of Information Technology, Mapúa University, Makati, NCR, Philippines

#### ID 255 Release and Start-up of the Stellantis DS Mirrors Production Line

Katia Mayela Lozano Ortiz, María Fernanda Vázquez Fernández, Alondra Valeria Salazar Orozco, Industrial and Systems Engineering Students, Universidad de Monterrey, Nuevo León, México

Edgar Marco Aurelio Granda Gutierrez, Tutor, Universidad de Monterrey, Nuevo León, México

#### ID 258 Synthesis and characterization of hydroxyapatite powder derived of eggshell by precipitation method

Samira Tlili, Saida Bouyegh, Kotbia Labiod, Noura Traiaia and Mohamed Hassani, Research Center in Industrial Technologies CRTI P.O.Box 64, Cheraga 16014 Algiers, Algeria

Bilal Ariche, Badji Mokhtar University, Annaba, Algeria

#### ID 259 Understanding the Business Considerations for Future Model-building in the Financial Industry

Henry I Schnetler, Marne De Vries, Wilna Bean, Department of Industrial and Systems Engineering, University of Pretoria, Pretoria, South Africa

#### ID 260 Targeted Key Indicators for Improving National Innovation Performance

Siham HAMIDI, Abdelaziz BERRADO, Equipe AMIPS - Ecole Mohammadia d'Ingénieurs, Mohamed V University, Avenue Ibn Sina, BP765, Agdal, Rabat, Maroc

#### ID 261 Information System Plan for West Corner Hotel (A Case Study)

Milstein Rei Cadorniga, Ashly Mariel Cruz, Coleen Dela Cruz, Kathleen Suello, Grace Lorraine Intal, School of Information Technology, Mapúa University, Manila Philippines

#### ID 262 Information Systems Plan for La Teacia Artisan Milk Tea (A Case Study)

Noel D. Basañez, Jr., Angelica Rose D. Bauzon, Kathleen R. Santos, Tristan Andrei T. Saura, Grace Lorraine Intal, School of Information Technology, Mapua University, Makati City, Philippines

#### ID 263 Strategic Information Systems Planning for the Improvement of RS Top Pizza's Business Process

Dion Karl V. Mandario, Jhustine C. Landingin, Grace Lorraine D. Intal, School of Information Technology Mapua University, Makati, NCR, Philippines

### ID 264 Characterization of the assessment of university education learning in times of COVID-19 based on a systemic approach

Carlos Oqueliz, Silvia Campos, Robert Castro, Demetrio Mandujano, Mario Chauca, Engineering Faculty, Ricardo Palma University, Av. Alfredo Benavides 5440, Santiago de Surco 15039, Perú

### ID 265 Raw Material Supply Configuration with Short Shelf Life in a Production Scenario MTS/MTO Minimizing Operational Risk and Cost

Lucas Ramírez, Engineering Magister Program Student, Universidad de Antioquia, Medellín, Colombia

Carmen Elena Patiño Rodríguez, Industrial Engineering Department, Universidad de Antioquia, Medellín, Colombia

Gloria Milena Osorno Osorio, Industrial Engineering Program, Unidad Central del Valle del Cauca, Tuluá, Colombia

#### ID 266 An Integrated Framework of Balance Scorecard-PESTLE-Smart and Green Port for Boosting the Port Performance

Yugowati Praharsi, Fitri Hardiyanti, Devina Puspitasari, Ristanti Akseptori, and Aditya Maharani, Business Management Department, Shipbuilding Institute of Polytechnic Surabaya, Surabaya, Indonesia

#### ID 267 Metro Red/Line Purple Line Familiarization Training

Michael J. Thomas, M.A., California State University, Los Angeles, Los Angeles, CA 90032

#### ID 268 Two Decades of Closed-loop Supply Chain: A Bibliometric Analysis

Imnatila Pongen, Department of Operations Management, Indian Institute of Management Ranchi, Jharkhand-834008, India

Pritee Ray, Department of Operations Management, Indian Institute of Management, Ranchi, Jharkhand-834008, India

### ID 271 Statistical Analysis of the Relationship between the Sintering Process and Magnetic Energy on the Improvement of the Magnetic Properties of the Permanent Magnet BaFe12019

Perak Samosir and Dwita Suastiyanti, Study Program on Mechanical Engineering, Institut Teknologi Indonesia, Jl.Raya Puspiptek Serpong, Kota Tangerang Selatan 15314

Wilson Rajagukguk, Faculty of Economics and Business, Universitas Kristen Indonesia, Jl. Mayjen Sutojo No.2, Cawang, Jakarta 13630, Indonesia

John Tampil Purba and Sidik Budiono, Department of Management Faculty of Economics and Business, Universitas Pelita Harapan, Tangerang-15811, Indonesia

#### ID 272 The Incorporation of Eco-Friendly Light Vehicles in Logistics Distribution Models: A Systematic Review

Sebastián Zazueta-Nassif, Roberto Galarza-Tamez, Vicente Montemayor-Villarreal, Industrial and Systems Engineering, Universidad de Monterrey, San Pedro Garza Garcia, Mexico

Jenny Díaz-Ramírez, School of Engineering and Technologies, Universidad de Monterrey, San Pedro Garza Garcia, Mexico

#### ID 273 The Implementation of the Capable Solar Power Through Tackling Challenges: KwaZulu-Natal Region

Bantubenzani Nelson Mdlolo, Department of Industrial Engineering, Durban University of Technology, Durban, 4001, SA

Oludolapo Akanni Olanrewaju, Department of Industrial Engineering, Durban University of Technology, Durban, 4001, SA

#### ID 274 Discrete Choice Models for Transportation Mode Choice: A Systematic Literature Review

Juan Estrada-García, Juliana Figueroa, Ezequiel González, Jenny Díaz-Ramírez, Department of Engineering, Universidad de Monterrey, San Pedro Garza García, Mexico

#### ID 275 Determining Strategies for The Perfect Shade Mobile Application Using SWOT Analysis and Six Thinking Hats

Bryelle Timothy C. Nisperos, Joshua Yñigo N. Pascual, Jerome Patrick S. Ramos, Grace Lorraine D. Intal, School of Information Technology, Mapua University, Makati, Philippines

#### ID 276 SAFE: Smart Application for Emergency

John Nicolo T. Cruz, Gabrielle Angelo D. Gabatin, John Gerick B. Gabunilas, and Gloren S. Fuentes, School of Information Technology, Mapua University, Makati City, Metro Manila, Philippines

#### ID 277 Online Scheduling System for Doctors and Patients in a Hospital

Marion Rylan Q. De Guzman, Jonn Louis N. Ordoñez, Ronald O. Somocierra, and Gloren S. Fuentes, School of Information Technology, Mapúa University, Makati City, Metro Manila, Philippines

#### ID 278 ACOUSTIC NOISE AND FORCE REDUCTION OF HIGH SPEED SWITCHED RELUCTANCE MOTOR BY ROTOR DESIGNS

Bui Minh Dinh, Dang Quoc Vuong Hanoi University of Science and Technology

#### ID 292 Purview of the Baseline's Construction for Vehicle Fuel Economy and its Statistical Limitations

Samantha Villarreal-Cavazos, Mariana Luis-González, Miguel Camacho-Assad and Jenny Díaz, School of Industrial and

Systems Engineering, University de Monterrey, San Pedro Garza García, NL 66238, México

José I. Huertas and Antonio E. Mogro, School of Engineering and Science-EIC, Tecnológico de Monterrey, Monterrey, México

#### ID 293 Mediating Effect of Financial Performance on The Effect Green Innovation on Firm Value

Hidayatul Khusnah, Mardiyah Anugraini, Vera Putri Fabiola, Department of Accounting Faculty of Business Economics and Digital Technology Universitas Nahdlatul Ulama Surabaya Surabaya 60237, East Java, Indonesia

Riyan Sisiawan Putra, Departemen of Management Faculty of Business Economics and Digital Technology Universitas Nahdlatul Ulama Surabaya Surabaya 60237, East Java, Indonesia

#### ID 294 Request Management System of an Airline's Engineering Department: A Case Study

Ronnie Dela Cruz; Grace Lorraine D. Intal, School of -Industrial Engineering, School of Information technology, Mapua University, Intramuros Manila, Philippines

#### ID 297 Preschool Selection Criteria Amongst Parents using Best Worst Method (BWM)

Fatin Athirah Noor Azmi, Department of Production and Operation Management, Faculty of Technology Management and Business, Universiti Tun Hussein Onn Malaysia, 86400, Batu Pahat, Johor, Malaysia

Rohaizan Ramlan, Centre of Research on Service and Operations Management (CRSOM), Faculty of Technology Management and Business, Universiti Tun Hussein Onn Malaysia, 86400, Batu Pahat, Johor, Malaysia

Shahryar Sorooshian, Department of Business Administration, University of Gothenburg, 41124 Gothenburg, Sweden

#### ID 299 Online Food Delivery (OFD) apps: What do the customers look at?

Nurul Najiha Zolkiffli, Department of Production and Operation Management, Faculty of Technology Management and Business, Universiti Tun Hussein Onn Malaysia, 86400, Batu Pahat, Johor, Malaysia

Rohaizan Ramlan, Chan Shiau Wei, Centre of Research on Service and Operations Management (CRSOM), Faculty of Technology Management and Business, Universiti Tun Hussein Onn Malaysia, 86400, Batu Pahat, Johor, Malaysia

#### ID 300 Material Flows Prediction for Dynamic Facility Layout Problems via Machine Learning Algorithms

Adem Erik, Çukurova University, Graduate School of Natural and Applied Sciences, Department of Industrial, Engineering, Balcalı Campus, 01330 Sarıçam, Adana, Turkey.

Yusuf Kuvvetli, Çukurova University, Engineering Faculty, Department of Industrial Engineering, Balcalı, Campus, 01330 Sarıçam, Adana, Turkey

#### ID 301 Optimal Location of a Central Warehouse for a Retail Painting Company: Practical Case in Mexico

Luis Antonio Guzmán-García, Diana Sánchez-Partida, José Luis Martínez-Flores and Patricia Cano-Olivos, Department of Logistics and Supply Chain Management, UPAEP University, 17 Sur 901, Barrio de Santiago, CP 72410 Puebla, Puebla, Mexico, Universidad Popular Autónoma del Estado de Puebla, Puebla, Puebla 72410, MEX

#### ID 303 Multi-Period Multi-Depot Location-Routing Problem for Mobile Center-based Last Mile Delivery

Minseo Choi and Taesu Cheong, School of Industrial Management Engineering, Korea University, Seoul, 02841, South Korea

### ID 304 Analyzing Different Factors Affecting Users' Adoption Of Dost Starbooks In Region 12 Using Technology Acceptance Model

Nabil iA. iHadji iYassin, Department of Science and Technology Region 12, Koronadal City, South Cotabato, Philippines

### ID 305 Resource Allocation Models to Meet the United States Hospitals Urgent Need of Ventilators During the COVID-19 Pandemic: A Review

Duaa Nawafleh, M.Sc., Alexandr M. Sokolov, Ph.D., and Niamat Ullah Ibne Hossain, Ph.D., Engineering Management Program, Arkansas State University, AR 72467, USA

#### ID 306 How Good or Bad is the Prediction of Black-Box COVID-19 Models After One Year Has Lapped?

Hennie Husniah, Department of Industrial Engineering, Langlangbuana University, Bandung, 40116, INDONESIA

Asep K. Supriatna, Department of Mathematics, Padjadjaran University, Jatinangor, 45363, INDONESIA

#### ID 307 Coordination and Non Coordination Lease Contract Model with Availability Target

H. Husniah, Bermawi.P. Iskandar, Department of Industrial Engineering, Langlangbuana University, Bandung, Indonesia

A. Cakravastia, Department of Industrial Engineering, Bandung Institute of Technology, Bandung, Indonesia

#### ID 310 Traffic Light Status Detection using APV Method

Moh Noor Al-Azam1, Cahyo Darujati1, Engineering and Computer Science Faculty, Narotama University, Surabaya, Jawa Timur, 60117, Indonesia

Sri Wiwoho Mudjanarko, 2,\*Civil Engineering Faculty, Narotama University, Surabaya, Jawa Timur, 60117, Indonesia

### ID 311 Examining the Factors that Influence Consumer Willingness to Pay of Bubble Tea among Generation Z in Bandung, Indonesia

Raden Aswin Rahadi, Candice Iswara, Kurnia Fajar Afgani, School of Business and Management, Institut Teknologi Bandung, Bandung, West Java 40132, Indonesia

Alfred Boediman, University of Chicago Booth School of Business, Hong Kong, 168 Victoria Rd, Mount Davis, Hong Kong

Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia

#### ID 312 Exploring the Drivers of Intention to Use Electronic Money of Small and Medium Enterprises (SMEs) in Indonesia

Raden Aswin Rahadi, Pauline Xena, Kurnia Fajar Afgani, Lidia Mayangsari, School of Business and Management, Institut Teknologi Bandung, Bandung, West Java 40132, Indonesia

Dwi Rahmawati, Sekolah Tinggi Ilmu Ekonomi Ekuitas, Neglasari, Cibeunying Kaler, Bandung, 40124 Jawa Barat, Indonesia

Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, Kuala Nerus, Terengganu, Malaysia

#### ID 314 Factors that Determine Repeat Purchases on E-Commerce

Inayatulloh, Information Systems Department, School of Information system, Bina Nusantara University, Jakarta, Indonesia 11480

Enggal Sriwardiningsih, Management Department, Binus Business School, Bina Nusantara University, Jakarta, Indonesia,

Hendra Alianto, Information Systems Department, School of Information system, Bina Nusantara University, Jakarta, Indonesia 11480

Sugeng Riyanto, STIE Pertiwi, Bekasi, Indonesia

Destiana Kumala, Sekolah Tinggi Ekonomi Bisnis Islam Syariah Bina Mandiri, Jakarta, Indonesia 11480

Rivaldhy N. Muhammad, Study Program of Law, Faculty of Law, Social and Political Sciences, Open University, Indonesia

### ID 315 Identifying the Impact of Transmigration Policy on Local Community: A Case Study of Sigulai Village, Simeulue Regency, Indonesia

Nellis Mardhiah, Agatha Debby Reiza Marcela, Faculty of Social and Political Sciences, Universitas Teuku Umar, Ujong Tanoh Darat, Meureubo, West Aceh, Aceh 23681, Indonesia

Jumadil Saputra and Zikri Muhammad, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia

### ID 316 The Role of Traditional Institution (Keujreun Blang) in Realizing the Agricultural Industrialization in Nagan Raya District, Aceh Province, Indonesia

Nellis Mardhiah, Afrizal Tjoetra, Nodi Marefanda, Faculty of Social and Political Sciences, Universitas Teuku Umar, Ujong Tanoh Darat, Meureubo, West Aceh, Aceh 23681, Indonesia

Jumadil Saputra and Zikri Muhammad, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia

#### ID 317 Industry 4.0 Maturity as a Moderator of Industry 4.0's Impact on Company Financial Performance

Hong Long Chen, Department of Business and Management, National University of Tainan, Tainan, 70005, Taiwan

#### ID 326 Comparison study between CB-SEM and PLS-SEM for sustainable supply chain innovation model

Ahmed El Maalmi and Laila El Abbadi, Engineering Sciences Laboratory, National School of Applied Sciences, Ibn Tofail University, Kenitra, Morocco

Kaoutar Jenoui, Laboratory Smartilab, Moroccan School of Engineering Sciences, EMSI, Rabat, Morocco

#### ID 328 Systemic analysis of the electrification of last-mile freight transport

Julieth Stefany García Collazos, Facultad de Minas, Universidad Nacional de Colombia, Medellín, Colombia

Laura Milena Cárdenas, Facultad de Ingeniería, Universidad de Antioquia, Medellín, Colombia

Carlos Jaime Franco, Facultad de Minas, Universidad Nacional de Colombia, Medellín, Colombia

#### ID 329 Improving SMEs Knowledge with Adoption Knowledge from Social Media

Inayatulloh, Information Systems Department, School of Information system, Bina Nusantara University, Jakarta, Indonesia 11480

Indra Kusumadi Hartono, Information Systems Department, Bina Nusantara University, Jakarta, Indonesia 11480

Ade Fadli Fachrul, Character Building Development Center, Bina Nusantara University, Jakarta, Indonesia

### ID 330 INTERPERSONAL COMMUNICATION BETWEEN MOTHER AND DAUGHTER TO INCULTING FEMINISM VALUES IN "ENOLA HOLMES" FILM

Felecia S Krismianto, Communication Science Department, Faculty of Economics and Communication, Bina Nusantara University, Jakarta 11480, Indonesia

Yanuarita Kusuma Permata Sari, Communication Science Department, Faculty of Economics and Communication, Bina Nusantara University, Jakarta 11480, Indonesia

#### ID 331 The Effectiveness Of Tourism Promotion In Bali By Influencers Using Tiktok

Anak Agung Ayu Dwitha Vebby Nathasya, Communication Science Department, Faculty of Economics and Communication, Bina Nusantara University, Jakarta 11480, Indonesia

Yanuarita Kusuma Permata Sari, Communication Science Department, Faculty of Economics and Communication, Bina Nusantara University, Jakarta 11480, Indonesia

### ID 332 Capturing Interpersonal Relationship Between Parents With Lgbt Children Through Call Me By Your Name Movie

Cindy Yolanda Kharismatika, Communication Science Department, Faculty of Economics and Communication, Bina Nusantara University, Jakarta 11480, Indonesia

Yanuarita Kusuma Permata Sari, Communication Science Department, Faculty of Economics and Communication, Bina Nusantara University, Jakarta 11480, Indonesia

#### ID 334 DIRECT WATER COOLING OF STATOR YOKE OF SRM WITH HIGH FREQUENCY AND CURRENT DENSITY

Bui Minh Dinh, School of Electrical Engineering, Hanoi Unviversity of Science and Technology

#### ID 335 Distraction and Driving Behavior of Young Indonesian Drivers: An Exploratory Study

Wina D. Oktavia, Manik Mahachandra, Excel Verlieson, Industrial Engineering Department, Faculty of Engineering, Diponegoro University, Semarang, Central Java 50269, Indonesia

Muhammad Ragil Suryoputro, Industrial Engineering Study Program, Faculty of Industrial Technology, Indonesian Islamic University, Yogyakarta, Indonesia

### ID 336 Measuring the correlation of service expectations of travelers in selected international KSA airports through Bilingual Sentiment and Clustering Analysis

Eng. Haya Altajel and Dr. Faisal Alotaibi, Industrial Engineering Department, Alfaisal University, Riyadh, Saudi Arabia

#### ID 337 A QFD-AHP Method for Bridges Structural System Selection During the Conceptual Design Phase

Mohammad AL Ayoub, Department of Civil Engineering, University of Sharjah, Sharjah, UAE

Saleh Abu Dabous, Department of Civil Engineering, University of Sharjah, Sharjah, UAE

Mohammed Alsharqawi, Township of South Stormont, Long Sault, Ontario, Canada

### ID 338 How the Use of Unmanned Aerial Vehicles to Detect Lost Energy in Buildings Leads to Industrial Sustainability - A Systematic Review

Sarah Ali A Alshahrani, Industrial Engineering Department, King Khalid University, Abha, Saudi Arabia

#### ID 346 Communication Strategies of Private University Students in Malang in Adapting to Online Lectures During Pandemic

Yanuarita Kusuma Permata Sari, Communication Science Department, Faculty of Economics and Communication, Bina Nusantara University, Jakarta 11480, Indonesia

Windaningsih, Communication Science Department, Faculty of Economics and Communication, Bina Nusantara University, Jakarta, Indonesia

Cindy Jane Suharjo, Communication Science Department, Faculty of Economics and Communication, Bina Nusantara University, Jakarta, Indonesia

#### ID 347 Analyzing Online Purchase Intentions in Fashion E-Commerce in Indonesia

Inayatulloh, Information Systems Department, School of Information system, Bina Nusantara University, Jakarta, Indonesia 11480

Enggal Sriwardiningsih, Management Department, Binus Business School, Bina Nusantara University, Jakarta, Indonesia,

Sugeng Riyanto, STIE Pertiwi, Bekasi, Indonesia

Destiana Kumala, Sekolah Tinggi Ekonomi Bisnis Islam Syariah Bina Mandiri, Jakarta, Indonesia 11480

Yenny Desnelita, Institut Bisnis dan Teknologi Pelita, Pekanbaru, Indonesia

Maisyarah Rahmi Hasan, Islamic Economic Law Department, Faculty of Sharia, Universitas Islam Negeri Sultan Aji Muhammad Idris Samarinda,

Mahaning Indrawaty Wijaya, Information Systems Department, School of Information Systems, Bina Nusantara University, Jakarta, Indonesia 11480

Maryani, Information Systems Department, School of Information system, Bina Nusantara University, Jakarta, Indonesia 11480

Wilda Susanti, Institut Bisnis dan Teknologi Pelita Indonesia

### ID 348 Analysis of the Impact of Capital Structure in the Innovation of a Firm Using the Techniques of Financial Engineering

Alexandr M. Sokolov, Ph.D., Anish Ghimire, M.B.A., Duaa Nawafleh M.Sc., and Niamat Ullah Ibne Hossain, Ph.D., Engineering Management Program, Arkansas State University, State University, AR 72467, USA

Ashish Ghimire, Department of Finance, Insurance, Real Estate & Law, University of North Texas

#### ID 349 Strengthening the Competitiveness of Micro Enterprises Using a Categorical Test Approach With Syntax Method

I Putu Artaya and Rizal Bahaswan, Departement of Management and Business, Narotama University

Mohammad Roesli, Departement of Law, Universitas Merdeka Surabaya

Nurmawati, Departement of Industry, Universitas 45 Surabaya

Setya Haksama, Department of Public Health, Airlangga University

Devita Anggraini Lestari, Department of Public Health, Airlangga University

Sulistyani Eka Lestari, Departement of Law, Sunan Bonang University

#### ID 350 The Effects of Poor Internal Quality on Customer Satisfaction

Alexandr M. Sokolov, Ph.D., Steven Picklesimon, M.Sc., Duaa Nawafleh, M.Sc. and Niamat Ullah Ibne Hossain, Ph.D., Engineering Management Program, Arkansas State University, State University, AR 72467, USA

#### ID 351 Real-world Vehicle Emissions in Mexico

Antonio E. Mogro and José Ignacio Huertas, School of Engineering and Science, Tecnologico de Monterrey, Monterrey, Mexico

#### ID 352 Three Decades of the Green City Study: A Bibliometric Perspective

Agung Purnomo, Entrepreneurship Department, BINUS Business School Undergraduate Program , Bina Nusantara University, Jakarta, Indonesia

Evaristus Didik Madyatmadja and Hendro Nindito, Information Systems Department, School of Information Systems, Bina Nusantara University, Jakarta 11480, Indonesia

Albert Verasius Dian Sano, Computer Science Department, School of Computer Science, Bina Nusantara University, Jakarta 11480. Indonesia

Corinthias P.M. Sianipar, Department of Global Ecology, Graduate School of Global Environmental Studies (GSGES), Division of Environmental Science and Technology, Graduate School of Agriculture (GSA), Kyoto University, Kyoto 606–8502, Japan

#### ID 354 The Key Factors to improve Thailand's Logistics System during the COVID-19 period

Teerasak Charoennapharat, Graduate Program in Industrial Engineering, Department of Industrial Engineering, Faculty of Engineering, Chiang Mai University, Chiang Mai 50200, Thailand

Poti Chaopaisarn, Excellent Center in Logistics and Supply Chain Management, Faculty of Engineering, Chiang Mai University, Chiang Mai 50200, Thailand

### ID 355 Readiness Factors for SMEs in e-Business to Adapt Digital Marketing in Sri Lanka: A Systematic Literature Review Kaveesha Madurapperuma, Department of Industrial Management, University of Kelaniya, Sri Lanka

Janaka Wijayanayake, Department of Industrial Management, University of Kelaniya, Sri Lanka

### ID 356 PINNING-UP OF HOUSEHOLD FINANCIAL BEHAVIOR TO SUPPORT FINANCIAL SYSTEM STABILITY IN INDONESIA (2015–2019)

Nur Azmi Karim, Entrepreneurship Departement, Bussiness School Undergraduate Program Bina Nusantara University Bandung Campus Bandung, Indonesia

#### ID 357 Knowing the SMEs Strategy Research around the World Using a Bibliometric Approach

Febby Candra Pratama and Agung Purnomo, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta 11480, Indonesia

Robertus Tang Herman, Management Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia

Fairuz Iqbal Maulana, Computer Science Department, School of Computer Science, Bina Nusantara University, Jakarta 11480, Indonesia

Galuh Windang Nuraulia, Economic Education Department, Universitas Negeri Malang, Malang 65145, Indonesia

#### ID 358 Leveraging the Application of Forecasting Methods to Analyze the Scrap Data of a Tire Industry

Larissa Guimaraes T. Santanna, Jessica Lee, Drew Wright, Niamat Ullah Ibne Hossain, Ph.D. Mississippi State University, Mississippi State, MS 39762, USA

Alexandr M. Sokolov, Ph.D., Arkansas State University, Engineering Management Program, Arkansas State University, State University, AR 72467, USA

#### ID 365 Life cycle assessment in the wine industry – a Bibliometric analysis

Adrián Salvador Morales García, Jorge Luis García Alcaraz and Yashar Aryanfar, Department of Electric Engineering and Computers Sciences, Autonomous University of Ciudad Juarez, Ciudad Juárez 32310, Mexico

José Roberto Díaz Reza, Department of Industrial Engineering, Tecnológico Nacional de Mexico/I.T. Ciudad Juárez, Ciudad Juarez 32500, Mexico

Ari Happonen, LUT School of Engineering Science, LUT University, Lappeenranta 53850, Finland

Julio Blanco Fernández, Department of Mechanical Engineering, University of La Rioja, Logroño, 26006, Spain

#### ID 366 Decent Work and Gender Equality in Mexico

Brenda Esmeralda Moreno-Garduño, Gabriela Guadalupe Escobedo-Guerrero, Georgette del Pilar Pavía-González, Antonio Uribe-Méndez,

Victor Martin Maldonado-Benitez, ESCA Santo Tomás, Instituto Politécnico Nacional, Mexico City, Mexico

#### ID 368 Industrial Symbiosis for Responsible Consumption in the Coffee Sector: Literature Review

Arturo Gutiérrez Maya, Gabriela Guadalupe Escobedo Guerrero, ESCA Santo Tomás, Instituto Politécnico Nacional, México City, México

Lila Margarita Bada-Carbajal, Instituto Tecnológico Superior de Álamo Temapache, Tecnológico Nacional de México, Veracruz, México

Antonio Uribe Méndez, ESCA Santo Tomás, Instituto Politécnico Nacional, México City, México

### ID 369 Implementation of MSMEs Competitiveness Improvement Model to Strengthen Entrepreneurial Aspects in Malang City

Ajeng Mira Herdina, Riesta Devi Kumalasari, Priska Arindya Purnama and Murniati, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia

#### ID 370 Smart Living: Mapping of the Past Research for Future Living

Agung Purnomo, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia

Hendro Nindito and Evaristus Didik Madyatmadja, Information Systems Department, School of Information Systems, Bina Nusantara University, Jakarta 11480, Indonesia

Albert Verasius Dian Sano, Computer Science Department, School of Computer Science, Bina Nusantara University, Jakarta 11480, Indonesia

Corinthias P.M. Sianipar, Department of Global Ecology, Graduate School of Global Environmental Studies (GSGES), Division of Environmental Science and Technology, Graduate School of Agriculture (GSA), Kyoto University, Kyoto 606–8502, Japan

#### ID 373 GENERATION Z'S PERCEPTION ON THE CONCEPT OF SEXUAL HARASSMENT THROUGH TIKTOK VIDEOS

Hikmashanty Suci Larasati, Communication Science Department, Faculty of Economics and Communication, Bina Nusantara University, Jakarta 11480, Indonesia

Yanuarita Kusuma Permata Sari, Communication Science Department, Faculty of Economics and Communication, Bina Nusantara University, Jakarta 11480, Indonesia

#### ID 374 The Analysis on Factors influencing the Use of Mobile Payment System Among Generation Z in Indonesia

Kurnia Fajar Afgani, School of Business and Management, Institut Teknologi Bandung, Indonesia

Octaviani Ratnasari Santoso, Politeknik Pajajaran ICB, Bandung, Indonesia

Dematria Pringgabayu, Politeknik Pajajaran ICB, Bandung, Indonesia

Emilia Fitriana Dewi, School of Business and Management, Institut Teknologi Bandung, Indonesia

Zxavian Zebadia Simorangkir, School of Business and Management, Institut Teknologi Bandung, Indonesia

### ID 375 Evaluation and Digital Marketing Platform Together to Develop the Organizational Agility of Cooperatives in Indonesia

Enggal Sriwardiningsih, Management Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia 11480

Agung Sudjatmoko, Business Management Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia

Mohamad Idris Laena, Indonesian Cooperative Council (DEKOPIN), Expert Council of the Indonesian Cooperative Council

#### ID 377 A Hybrid Artificial Neural Network and Logistics Regression Model for Fashion Sales Strategies Prediction

Rifdah Zahabiyah and Andi Cakravastia, Industrial Engineering Program, Faculty of Industrial Technology, Bandung Institute of Technology, Bandung, Indonesia

#### ID 379 Control and Continuous Improvement in the Picking Area

Marco Antonio Lucero-Flores, Facultad Industrial y Logística. Departamento en Logística y Dirección de la cadena de suministro, Universidad Popular Autónoma del Estado de Puebla A.C., 17 Sur 901, Barrio de Santiago, Puebla, 72410, México

Diana Sánchez-Partida, Facultad Industrial y Logística. Departamento en Logística y Dirección de la cadena de suministro, Universidad Popular Autónoma del Estado de Puebla A.C., 17 Sur 901, Barrio de Santiago, Puebla, 72410, México

Patricia Cano-Olivos, Facultad Industrial y Logística. Departamento en Logística y Dirección de la cadena de suministro, Universidad Popular Autónoma del Estado de Puebla A.C., 17 Sur 901, Barrio de Santiago, Puebla, 72410, México

Luis Cuautle-Gutierrez, Facultad Industrial y Logística. Departamento en Logística y Dirección de la cadena de suministro, Universidad Popular Autónoma del Estado de Puebla A.C., 17 Sur 901, Barrio de Santiago, Puebla, 72410,

#### ID 380 A Review of Strategic Management Research in Indonesia

Agung Purnomo and Febby Candra Pratama, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta 11480, Indonesia

Nur Afia and Elsa Rosyidah, Institute for Research and Community Services, Universitas Nahdlatul Ulama Sidoarjo, Sidoarjo 61218, Indonesia

Rini Safitri, School of Management, National Central University, Taoyuan City 320317, Taiwan (R.O.C.)

### ID 381 A Comparative Life Cycle Assessment Study of Conventional and Best Available Techniques Incorporated Cement Production Processes using midpoint approach

Busola Dorcas Olagunju, Oludolapo Akanni Olanrewaju, Department of Industrial Engineering, Faculty of Engineering and the Built Environment, Durban university of Technology, Durban, South Africa

Rubén Irusta-Mata, Institute of Sustainable Processes, University of Valladolid, Dr. Mergelina s/n, 47011 Valladolid, Spain, Department of Chemical Engineering and Environmental Technology, School of Industrial Engineering, Paseo del Cauce, 59, University of Valladolid, 47011 Valladolid, Spain.

### ID 382 Determination of Heat Transfer Coefficient In Heat Treatment Processes Using Computational Fluid Dynamics Simulation

Juan Barbosa and Arturo Aranda, Manufacturing Process Simulation Department, DRIVEN / CLAUT Innovation Center, Monterrey, NL 66628, Mexico

### ID 389 On the Assessment of Neutral Theory via Applying MaxEnt to the Analysis of Barro Colorado Island Species Abundance Data

Damian Musk, Stanford University Online High School, Palo Alto, CA 94305, USA

#### ID 391 Economic Statistical Design of np Control Chart for Monitoring Attribute

Batool Alamassi, Salah Haridy, Mohammad Shamsuzzaman and Hamdi Bashir, Department of Industrial Engineering and Engineering Management, University of Sharjah, Sharjah 27272, UAE

#### ID 392 Supplier Selection Criteria for E-Commerce Based Fashion SME's

Yoan Thresia T and Andi Cakravastia, Industrial Engineering Program, Faculty of Industrial Technology, Bandung Institute of Technology, Bandung, Indonesia

### ID 393 Factor Analysis on Consumer Behavior Intention to Use Homecare Application for Veterinarian using Structural Equation Model

Anak Agung Ngurah Perwira Redi and Fredlina Margaret, Department of Industrial Engineering, BINUS Graduate Program – Master of Industrial Engineering, Universitas Bina Nusantara, DKI Jakarta, 11480, Indonesia

Reny Nadlifatin, Department of Information System, Institut Teknologi Sepuluh Nopember, Surabaya, 60111, Indonesia

Adji Candra Kurniawan, Department of Logistics Engineering, Universitas Pertamina, DKI Jakarta, 12220, Indonesia

Anisa Larasati, Business Management Department, Universitas Bina Nusantara, DKI Jakarta, 11480, Indonesia

Safarudin Gazali Herawan, Industrial Engineering Department, Faculty of Engineering, Universitas Bina Nusantara, DKI Jakarta, 11480, Indonesia

Ketut Budhi Riyanta, PT Medika Nusantara Gumilang (Medi-Call), DKI Jakarta, 11480, Indonesia

#### ID 394 Digital Transformation in Small Medium Enterprises: Mapping of the Knowledge Base

Febby Candra Pratama and Agung Purnomo, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta 11480, Indonesia

Fairuz Iqbal Maulana, Computer Science Department, School of Computer Science, Bina Nusantara University, Jakarta 11480, Indonesia

Nana Abdul Aziz, Political Science and Public Administration, Bandırma University Turki, Bandırma 10200, Turki

Inggit Kresna Maharsih, Chemical and Materials Engineering, National Central University, Taoyuan City 320317, Taiwan (R.O.C.)

#### ID 395 Knowing The Facts of SMEs Performance Research in Indonesia Using Bibliometric Approach

Febby Candra Pratama and Agung Purnomo, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta 11480, Indonesia

Fairuz Iqbal Maulana, Computer Science Department, School of Computer Science, Bina Nusantara University, Jakarta 11480, Indonesia

Nana Abdul Aziz, Political Science and Public Administration, Bandırma University Turki, Bandırma 10200, Turki

Inggit Kresna Maharsih, Chemical and Materials Engineering, National Central University, Taoyuan City 320317, Taiwan (R.O.C.)

#### ID 396 Deep Learning Based Platform for Vehicle Parts Defect Classification and Anomaly Detection

Hanseok Seo and Taesu Cheong, School of Industrial and Management Engineering, Korea University, Seoul, 02841, South

#### ID 397 The Stakeholders' Perceptions on Critical Success Factors for Construction Projects

Gomolemo Lovell Phetlhu, Faculty of Engineering and the Built Environment, University of Johannesburg, Johannesburg, Gauteng

Dr. Hannelie Nel, Faculty of Engineering and the Built Environment, Senior Lecturer, University of Johannesburg, Johannesburg, Gauteng

### ID 398 Product Quality, Price, Product Involvement, Atmosphere and WOM Effect on Purchase Intention at Starbucks Coffee Hayam Wuruk Drivethru Jakarta, Indonesia

Steven Phan and John Tampil Purba, Department of Management Faculty of Economics and Business, Universitas Pelita Harapan, Tangerang-15811, Indonesia

Sidik Budiono, Department of Management Faculty of Economics and Business, Universitas Pelita Harapan, Tangerang-15811, Indonesia

Wilson Rajagukguk, Department of Management Faculty of Economics and Business, Universitas Kristen Indonesia, Jakarta, Indonesia

### ID 400 Critical Success factors of adopting Social Media for Internal Communication in Private Sector Organizations in Sri Lanka

Udeshinie Wijesinghe, Janaka Wijayanayake, Department of Industrial Management, University of Kelaniya, Sri Lanka

### ID 402 An integration approach of multi-structure DEA and random vector functional link neural network in benchmarking modelling and forecasting

Phuong Hoa Hoang, English Program of Global Business, Chinese Culture University, Taipei, Taiwan

Sin-Jin Lin, Department of Accounting, Chinese Culture University, Taipei, Taiwan

Ming-Fu Hsu, Department of Business Management, National United University, Miaoli, Taiwan

#### ID 403 Detection of Mental illness using Machine learning and Deep Learning

Manan Hingorani, M.Tech Student, Dr. Vishwanath Karad MIT World Peace University, Pune, India

Dr. Nitin Pise, Faculty, MIT WPU Dr. Vishwanath Karad MIT World Peace University, Pune, India

#### ID 406 Identification of External Risks Affecting the South African Mining Sector and Their Mitigation Strategies

Moshopyadi Pretty Mashamba and Hannelie Nel, Post-Graduate School of Engineering Management, Faculty of Engineering and the Built Environment, University of Johannesburg, South Africa

#### ID 408 Analysing the Potential of Technology in Sri Lanka to Adopt E- voting: A Systematic Literature Review

Saraniya Selvanesan, Department of Industrial Management, University of Kelaniya, Sri Lanka

Janaka Wijayanayake, Department of Industrial Management, University of Kelaniya, Sri Lanka

#### ID 410 The Cultural Dimension of Entrepreneurial Leaders in Sundanese Society

Mulyani Karmagatri, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia

Hazmilah Hasan, Faculty of Technology Management and Technopreneurship, Universiti Teknikal Malaysia Melaka

Andreas Chang, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia

### ID 411 Investigation of the Effectiveness of ERP System on Management Decision-Making in Higher Educational Institutions

George K. Aggrey, Department of Computer Science and Information Technology, University of Cape Coast, Ghana

Amevi Acakpovi, Department of Electrical and Electronic Engineering, Accra Technical University (ATU), Ghana

Emmanuel Peters, Department of Computer Science and Information Technology, Accra Institute of Technology (AIT), Ghana

#### ID 412 ERP Implementation Challenges in Ghanaian Higher Education Institution

George K. Aggrey, Department of Computer Science and Information Technology, University of Cape Coast, Ghana

Amevi Acakpovi, Department of Electrical and Electronic Engineering, Accra Technical University (ATU), Ghana

Emmanuel Peters, Department of Computer Science and Information Technology, Accra Institute of Technology (AIT), Ghana

### ID 413 Collaborative model between Data Analytics and PDCA for service level improvement in environmental consulting SMEs

Juan Carlos Quiroz-Flores and Martín Collao-Diaz, Faculty of Engineering and Architecture, Industrial Engineering Program, Universidad de Lima, Perú

#### ID 414 A Collaborative IoT Design Approach

Maxwell Schoeman and Marné de Vries, Department of Industrial Engineering, University of Pretoria, South Africa

#### ID 415 The Impact of Destination Attribute to Traveling Decision in New Normal

Erma Lusia, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia

Mulyani, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia

Doni Purnama Alamsyah, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia

#### ID 416 Supply chain inventory optimization: An alternative approach

Nguyen Thi Mong Ngan, School of Manufacturing Systems and Mechanical Engineering, Sirindhorn International Institute of Technology, Thammasat University, Pathum Thani, Thailand

Jirachai Buddhakulsomsiri, School of Manufacturing Systems and Mechanical Engineering, Sirindhorn International Institute of Technology, Thammasat University, Pathum Thani, Thailand

Pham Duc Tai, School of Manufacturing Systems and Mechanical Engineering, Sirindhorn International Institute of Technology, Thammasat University, Pathum Thani, Thailand

### ID 417 Medical Surge Capability: An Intelligent Framework for Improving Hospital Emergency Department Operations

Egbe-Etu Etu, PhD, Department of Marketing and Business Analytics, San Jose State University, San Jose, CA 95192, USA

Leslie Monplaisir, PhD, Celestine Aguwa, PhD, Sara Masoud, PhD, Department of Industrial & Systems Engineering, Wayne State University, Detroit, MI 48202, USA

Suzan Arslanturk, PhD, Department of Computer Science, Wayne State University, Detroit, MI 48202, USA

Joseph Miller, MD, Department of Emergency Medicine, Henry Ford Hospital, Detroit, MI 48202, USA

### ID 418 A Framework to Foster Innovation-Driven Enterprises Creation in the University, the Case of Monterrey Region in Mexico

Alejandro Téllez Girón Barrera and David Güemes Castorena, School of Engineering and Sciences, Tecnologico de Monterrey, Monterrey, NL 64849, Mexico

#### ID 419 Dimensionality Reduction and Text Mining for Smart Content Filtering of an Online Health Forum

Reinaldo Sanchez-Arias, Roberto Batista, Levi C. Nicklas, Department of Data Science and Business Analytics, Florida

Peter Akioyamen, The School of Mathematical and Statistical Sciences, Western University, Ontario, Canada

#### ID 420 Vertical Take-off and Landing Platform for Cartography and Local Governance Consulting

D.A. Perez-DeLaMora, Joaquin Aguerrebere, J. Emilio Quiroz-Ibarra, E.G. Hernández-Martinez, José Manuel Cámara Roldán and Diego Enrique Bastien Leon, Instituto de Investigación Aplicada y Tecnología, Universidad Iberoamericana Ciudad de México, Mexico City, Mexico

J.M. Nuñez, Centro Transdisciplinar Universitario de Sustentabilidad, Universidad Iberoamericana Ciudad de México, Mexico City, Mexico

Á. González-Ordiano, Departamento de Estudios en Ingeniería para la Innovación, Universidad Iberoamericana Ciudad de México, Mexico City, Mexico

G.Fernandez-Anaya Departamento de Física y Matemáticas, Universidad Iberoamericana Ciudad de México, Mexico City, Mexico

### ID 421 The Effect Of Digital Marketing And Brand Trust On The Decision To Use Digital Wallet Funds In Bandung City Community

Jalil Nur Rahman, M. Yahya Arwiyah, Amalina Dewi Kumalasari, and Mahir Pradana Department of Business Administration, Telkom University, Bandung, 40257, Indonesia

Renaldi Renaldi, Universitas Andi Djemma, Palopo, Indonesia

#### ID 422 THE INFLUENCE OF ORGANIZATIONAL CULTURE ON EMPLOYEE PERFORMANCE AT PT SIPATEX PUTRI LESTARI

Syaiful Marwan, Bachruddin Saleh Luturlean, Aldi Akbar, Triaji Prio Pratomo, and Mahir Pradana, Department of Business Administration, Telkom University, Bandung, 40257, Indonesia

Renaldi Renaldi, Universitas Andi Djemma, Palopo, Indonesia

#### ID 423 Influence of the Rotor Slot Number on Core Losses of the Induction Motor

Bui Minh Dinh, School of Electrical Engineering and Electronics, Hanoi University of Science and Technology

Nguyen Viet Anh, Hanoi University of Industry

#### ID 424 Recycling Model Selection based for express package base on AHP: A practical case of Yunnan University

Kodchanitch Wannagoat, Wang Ruowen, Jirapat Wanitwattanakosol, College of Arts, Media and Technology, Chiang Mai University, Chiang Mai, Thailand

#### ID 425 Modeling and Algorithm Design for Driver Assignment Problems Considering Drivers States and Capacity

Rizki Basuki, Rully Cahyono, Andi Cakravastia, Department of Industrial Engineering, Institut Teknologi Bandung, Bandung 4013, INDONESIA

#### ID 426 Malangan Mask Preservation Based on Social Media Consumption of Generation Z in Malang

Erika Danny Mulyadi, Communication Science Department, Faculty of Economics and Communication, Bina Nusantara University, Jakarta 11480, Indonesia

Yanuarita Kusuma Permata Sari, Communication Science Department, Faculty of Economics and Communication, Bina Nusantara University, Jakarta 11480, Indonesia

#### ID 427 The Influence of Communication Psychology on the Character of Jasalindo Sport Swimming Athletes

AA. Mirah Krisnawati, Communication Science Department, Faculty of Economics and Communication, Bina Nusantara University, Jakarta 11480, Indonesia

Nur Kholis, Communication Science Department, Faculty of Economics and Communication, Bina Nusantara University, Jakarta 11480, Indonesia

Yosephine Aurelia Purnomo, Communication Science Department, Faculty of Economics and Communication, Bina Nusantara University, Jakarta 11480, Indonesia

# **ID 428** Preparation and characteristics of synthesized hydroxyapatite from bovine bones and by co-precipitation method Saida Bouyegh, Samira Tlili, Kotbia Labiod and Mohamed Hassani, Research Center in Industrial Technologies CRTI, P.O. Box 64, Cheraga 16014 Algiers, Algeria

Mohamed Grimet and Oussama Bensalem, Chemistry Department, Badji Mokhtar - Annaba University

# ID 429 Academic Performance, Fatigue, and Stress in Online Learning Among College Students: A Multivariate Analysis John Jeric R. Almonte, Emil R. Badillo, Kevin Brian S. Candelaria, Ian Kent D. Tadle, John Timothy P. Villacorte, Romalyn Galingan, Department of Industrial Engineering, College of Engineering and Architecture Technological Institute of the Philippines – Quezon City Cubao, Quezon City, Philippines

#### ID 430 Robust Least Squared Model: How to Maintain Brand Loyalty at Starbucks Indonesia

Sidik Budiono, Department of Management Faculty of Economics and Business, Universitas Pelita Harapan, Tangerang-15811, Indonesia

John Tampil Purba, Department of Management Faculty of Economics and Business, Universitas Pelita Harapan, Tangerang-15811, Indonesia

#### ID 431 Robust Least Squared: To Build Consumer's Purchase Intention at Louis Vuitton Indonesia

Sidik Budiono, Department of Management Faculty of Economics and Business, Universitas Pelita Harapan, Tangerang-15811, Indonesia

John Tampil Purba, Department of Management Faculty of Economics and Business, Universitas Pelita Harapan, Tangerang-15811, Indonesia

Wilson Rajagukguk, Faculty of Economics and Business, Universitas Kristen Indonesia, Jl. Mayjen Sutojo No.2, Cawang, Jakarta 13630. Indonesia

#### ID 432 Human Resource 4.0: A vision of a technological tool to assess and foster employee engagement

Juliana Salvadorinho, Carlos Ferreira, Leonor Teixeira, Department of Economics, Management, Industrial Engineering and Tourism (DEGEIT)

Institute of Electronics and Informatics Engineering of Aveiro (IEETA), University of Aveiro, Aveiro, Portugal

Andreia Vitória, and Celeste Varum, Department of Economics, Management, Industrial Engineering and Tourism (DEGEIT), Research unit in Governance, Competitiveness and Public Policies (GOVCOPP)

João Marques, Research unit in Governance, Competitiveness and Public Policies (GOVCOPP), Department of Social, Political and Territorial Sciences (DSPTS)

#### ID 433 Factors Bridging the Satisfaction of Generational Gap in Philippine Healthcare System Telemedicine Use

Charish Jen Rala, Jovilyn Abarico, Obeaya Marie Camota, Andrea Cumpa, Dianne Lizbeth Perico, Kenneth Salvante, Pamela Anne Mae Velasco, Romalyn Galingan, Arriane Palisoc, Department of Industrial Engineering, College of Engineering and Architecture, Technological Institute of the Philippines – Quezon City, Cubao, Quezon City, Philippines

#### ID 434 Factors Influencing The Diffusion of Telehealth In Home Visit Medical Services

Adji Candra Kurniawan, Fiki Rohmatul Maula, Koulan Tsakiilaa, Department of Logistics Engineering, Universitas Pertamina, DKI Jakarta, 12220, Indonesia

Anak Agung Ngurah Perwira Redi, Department of Industrial Engineering, BINUS Graduate Program - Master of Industrial Engineering, Universitas Bina Nusantara, DKI Jakarta, 11480, Indonesia

Bobby Ardiansyahmiraja, Department of Technology Management, Institut Teknologi Sepuluh Nopember, Surabaya, 60111, Indonesia

Reny Nadlifatin, Department of Information System, Institut Teknologi Sepuluh Nopember, Surabaya, 60111, Indonesia

Anisa Larasati, Business Management Department, Universitas Bina Nusantara, DKI Jakarta, 11480, Indonesia

Safarudin Gazali Herawan, Industrial Engineering Department, Faculty of Engineering, Universitas Bina Nusantara, DKI Jakarta, 11480, Indonesia

Ketut Budhi Riyanta, PT Medika Nusantara Gumilang (Medi-Call), DKI Jakarta, 11480, Indonesia

### ID 435 Proposal for the Implementation of Key Performance Indicators for a Warehouse. Case: Tracto Partes Diamante de Puebla S.A. de C.V

Maria Fernanda Barreto-Maceda, Diana Sánchez-Partida, Santiago Omar Caballero-Morales and Luis Cuatle-Gutierrez, Faculty of Industrial Engineering and Logistics, Department in Logistics and Supply Chain Management, UPAEP University, 17 Sur 901, Barrio de Santiago, CP 72410 Puebla, México

#### ID 436 Development of Vegetable Oil-based Nano-lubricants using MMT Nanoparticles as Lubricant Additives

MD Mashfiqur Rahman, Md Abu Sayeed Biswas, and Javier A. Ortega, Department of Mechanical Engineering, The University of Texas Rio Grande Valley, Edinburg, TX 78539, USA

Laura Peña-Parás and Demófilo Maldonado-Cortés, Engineering Department, Universidad de Monterrey, San Pedro Garza García, N. L., México

### ID 437 Characterization of vegetable oil-based lubricants with Halloysite Nanotubes as lubricant additives and their tribological performance

Md Abu Sayeed Biswas, MD Mashfiqur Rahman, and Javier A. Ortega, Department of Mechanical Engineering, The University of Texas Rio Grande Valley, Edinburg, TX 78539, USA

Laura Peña-Parás and Demófilo Maldonado-Cortés, Engineering Department, Universidad de Monterrey, San Pedro Garza García, N. L., México

### ID 438 Redesigning an Inclusive Digital Contact Tracing Service Systems: User-Focused Phase of Design Thinking Approach

Javy Denver K. Chan, Department of Industrial Engineering, University of Santo Tomas, España Boulevard, Sampaloc, Manila, 1008, Philippines

Ivan Floyd R. Flores, Department of Industrial Engineering, University of Santo Tomas, España Boulevard, Sampaloc, Manila, 1008, Philippines

Wilwyn G. Mendoza, Department of Industrial Engineering, University of Santo Tomas, España Boulevard, Sampaloc, Manila, 1008, Philippines

Kim Lyn B. Sanvodal, Department of Industrial Engineering, University of Santo Tomas, España Boulevard, Sampaloc, Manila, 1008, Philippines

Gabriel C. Bucu, Department of Industrial Engineering, University of Santo Tomas, España Boulevard, Sampaloc, Manila, Philippines and Department of Industrial and Systems Engineering, De La Salle University, Taft Avenue, Manila, 1002, Philippines

#### ID 439 Queuing Theory: A Case Study in Analyzing the Vaccination Service in Quezon City

Christlyn Mae C. Valeriano, Charles Kristian K. Ilo, Maria Kathryne A. Illescas, Jan Aldrin V. Dahilig, Rene D. Estember, School of Industrial and Engineering Management, Mapúa University, Intramuros, Manila, Philippines

### ID 440 Experimental Analysis on Determination of Significant Factors in Growing Mung Bean Sprouts (Length) in a Home-Based Set Up (Non-Soil Germination)

Ariel A. Salvador Jr. and Gabriel C. Bucu, Department of Industrial and Systems Engineering, De La Salle University, Taft Avenue, Manila, 1002, Philippines

Department of Industrial Engineering, University of Santo Tomas, España Boulevard, Sampaloc, Manila, 1008, Philippines

Joehanna K. Ngo and Carlos Ignacio Jr. P., Department of Industrial Engineering, University of Santo Tomas, España Boulevard, Sampaloc, Manila, 1008, Philippines

### ID 441 Brand Trust, Price, Perceived Value and Brand Image as Mediation toward Purchase Intention of Aircraft Tickets in Traveloka in the era of Pandemic Covid-19

E-Joo and John Tampil Purba, Department of Management Faculty of Economics and Business, Universitas Pelita Harapan, Tangerang, Indonesia

Sidik Budiono, Department of Management Faculty of Economics and Business, Universitas Pelita Harapan, Tangerang-15811, Indonesia

#### ID 442 Economic Growth, Information Technology, and Bribery Incidence

Wilson Rajagukguk, Faculty of Economics and Business, Universitas Kristen Indonesia, Jl. Mayjen Sutojo No.2, Cawang, Jakarta 13630, Indonesia

John Tampil Purba, Department of Management Faculty of Economics and Business, Universitas Pelita Harapan, Tangerang-15811, Indonesia

Sidik Budiono, Department of Management Faculty of Economics and Business, Universitas Pelita Harapan, Tangerang-15811, Indonesia

### ID 443 Application of Decision Theory on Strategy of Supermarket in Promoting Health Safety and Developing Sustainability amidst Pandemic

Angelo Luis S. Doctora, William Davin D. Perez, Franco Neil A. Sanchez, Abigail B. Vasquez, Rene D. Estember, School of Industrial Engineering and Engineering Management, Mapúa University, Manila, Philippines

#### ID 444 Markov Chain Analysis of Student Learning Progression in a Quarter Academic System

Jhon Lawrence G. Quimio, Anthony A. Sanchez, Kianna Denise C. Villapando, Rene D. Estember, School of Industrial Engineering and Engineering Management, Mapúa University, Manila, Philippines

#### ID 445 Supply Chain Risk Mitigation with Supply Risk Management approach

Tri Pujadi, School of Information systems, Bina Nusantara University, Jakarat, Indonesia

Bahtiar H. Simamora, Department of Management, Binus Business School, Bina Nusantara University Jakarta, Indonesia

Vikas Kumar, Bristol Business School, University of the West of England, Bristol, BS16 1QY, UK

Adhi Nugroho Chandra, Henricus Bambang Triantono, Seprihadi Natanael, Lisa E. Wong, School of Information systems, Bina Nusantara University, Jakarta, Indonesia

### ID 446 Effectiveness Of Gamification Strategy To Increasing Shopee's Customer Loyalty In Shopee's Marketing Public Relations

Benedictus Dicky I., Public Relations Department, Faculty of Economics & Communication Bina Nusantara University Jakarta, Indonesia 11480

Gabriella Sagita Putri, Public Relations Department, Faculty of Economics & Communication Bina Nusantara University Jakarta, Indonesia 11480

Galuh Ayu Savitri, Public Relations Department, Faculty of Economics & Communication Bina Nusantara University Jakarta, Indonesia 11480

Adhi Murti Citra Amalia, Public Relations Department, Faculty of Economics & Communication Bina Nusantara University Jakarta, Indonesia 11480

#### ID 447 Managing Risk with the Concept of SCRM on Procurement and Warehouse Department

Tri Pujadi, School of Information systems, Bina Nusantara University, Jakarat, Indonesia

Bahtiar H. Simamora, Department of Management, Binus Business School, Bina Nusantara University Jakarta, Indonesia

Vikas Kumar, Bristol Business School, University of the West of England, Bristol, BS16 1QY, UK

Andreas AB. Hirawan, Angelia D. Suryawan, Arief Dwi Hartadi, Fenny, School of Information systems, Bina Nusantara University, Jakarta, Indonesia

#### ID 448 Risk Mitigation for Strengthening Supply Chain Strategies in the Pandemic Era

Tri Pujadi, School of Information systems, Bina Nusantara University, Jakarat, Indonesia

Bahtiar H. Simamora, Department of Management, Binus Business School, Bina Nusantara University Jakarta, Indonesia

Vikas Kumar, Bristol Business School, University of the West of England, Bristol, BS16 1QY, UK

Stephen G. Kurnia, Dian Affandi, Haris Setia Budi, Maria Gabby, School of Information systems, Bina Nusantara University Jakarta, Indonesia

#### ID 449 Preventive Maintenance on Main Components of PT KA Indonesia Transportation Equipment

Tri Pujadi, School of Information systems, Bina Nusantara University, Jakarat, Indonesia

Bahtiar H. Simamora, Department of Management, Binus Business School, Bina Nusantara University Jakarta, Indonesia

Vikas Kumar, Bristol Business School, University of the West of England, Bristol, BS16 1QY, UK

Harkat C Zamasi, Hendy Wijaya, Ernawaty, Lius Steven, School of Information Systems, Bina Nusantara University, Jakarta, Indonesia

#### ID 450 Goal Programming Approach: Application in a Cake Business

Lorenzo Caday, Krisanta Ana Draculan, Jerome Liwanag, Wajid Mariño, Rene Estember, School of Industrial Engineering and Engineering Management, Mapua University, Intramuros, Manila, Philippines

#### ID 451 Preventive Maintenance Modeling on Die Casting Machines with Information Systems

Tri Pujadi, School of Information systems, Bina Nusantara University, Jakarat, Indonesia

Bahtiar H. Simamora, Department of Management, Binus Business School, Bina Nusantara University Jakarta, Indonesia

Vikas Kumar, Bristol Business School, University of the West of England, Bristol, BS16 1QY, UK

Yulia Magdalena, Witarsjah, Yunita Kartika Sari, Satya Windy, School of Information systems, Bina Nusantara University, Jakarta, Indonesia

#### ID 452 The Application of Decision Theory in Picking Delivery Courier Services in the Philippines

Alliah Jane S. Agunos, Carl Louie N. Cruz, Cedric F. Reprado, Henrie Louis P. Subido, Rene D. Estember, Department of Industrial Engineering and Engineering Management, Mapua University, Intramuros, Manila, Philippines

#### ID 453 The Influence of Mobile Experience Design on Brand Satisfaction

Tri Pujadi, School of Information systems, Bina Nusantara University, Jakarat, Indonesia

Bahtiar H. Simamora, Department of Management, Binus Business School, Bina Nusantara University Jakarta, Indonesia

Vikas Kumar, Bristol Business School, University of the West of England, Bristol, BS16 1QY, UK

Lianna Sugandi, Huibert A Wena, Theodora Subyantoro, Lisa Dewi, School of Information systems, Bina Nusantara University Jakarta, Indonesia

#### ID 454 Optimizing Raw Material Orders Using a Comparison of Deterministic and Probabilistic Methods

Tri Pujadi, School of Information systems, Bina Nusantara University, Jakarta, Indonesia

Bahtiar H. Simamora, Department of Management, Binus Business School, Bina Nusantara University, Jakarta, Indonesia

Vikas Kumar, Bristol Business School, University of the West of England, Bristol, BS16 1QY, UK

Fifilia, J Rolles Sihombing, Mahendra Metta, Manise Hendrawaty, School of Information systems, Bina Nusantara University, Jakarta, Indonesia

#### ID 455 Using E-Procurement to Minimize Risks in Customer Service

Tri Pujadi, School of Information systems, Bina Nusantara University, Jakarat, Indonesia

Bahtiar H. Simamora, Department of Management, Binus Business School, Bina Nusantara University Jakarta, Indonesia

Vikas Kumar, Bristol Business School, University of the West of England, Bristol, BS16 1QY, UK

Siti Maryam, Rainer Hannesto, Steeve Haryanto, Mahaning Indrawaty, School of Information systems, Bina Nusantara University, Jakarat, Indonesia

### ID 456 A Queuing Theory Approach to Improve Service Quality of Banking Systems: A Case Study of a Bank in Laguna, Philippines

Madeline Anne Patrice C. Sy, Frankern Luis S. Malabuyoc, Ma. Daniella M. Sobrevilla, and Rene D. Estember, School of Industrial Engineering and Engineering Management, Mapúa University, Intramuros, Manila, Philippines

#### **ID 457** Districting based on Stochastic Demands

Eduardo Díaz Medina, Facultad de Ingeniería, Universidad Panamericana, Zapopan, Jalisco 45010, Mexico

Samuel Nucamendi-Guillén, Facultad de Ingeniería, Universidad Panamericana, Zapopan, Jalisco 45010, Mexico

Rosa González Ramírez, Facultad de Ingeniería y Ciencias Aplicadas, Universidad De Los Andes, Santiago, Chile

Neale R. Smith-Cornejo, Industrial Engineering Department, Tecnológico de Monterrey, Nuevo León, 64670, Mexico

#### ID 458 An Application of Decision Analysis on the Strategy of Professors with the Absorption of Knowledge Between Faceto-Face and Online Learning

Julianne Mikhaella Delos Reyes, Louis Miguel Dural, Julia Sofie Mangaoang, Gaea Marithe Victor, and Rene Estember, School of Industrial Engineering and Engineering management, Mapua University, Muralla St. Intramuros, Manila 1002 Philippines

### ID 459 An Adaptation of Industry 4.0: Modifying the Implemented Queuing System in Philippine Statistics Authority Applying Monte Carlo Simulation

Matthew P. Solivio, Maria Angelica D. Bare, Francee Mae F. Castro, Kirstien Paola E. Robas, Rene D. Estember, School of Industrial Engineering and Engineering Management, Mapúa University, Manila, Philippines

### ID 460 A Guideline to Improve the Business Continuity in the New Normal (Covid-19) through Human Resource Management: Case of Sri Lankan Apparel Industry

Gowsiga Mahendrarajah, Department of Building Economics, University of Moratuwa, Moratuwa, Sri Lanka

Sabrina Nazeer, Department of Building Economics, University of Moratuwa, Moratuwa, Sri Lanka.

Kartheepan Thavarasasingam, University of Western London

#### ID 461 Building a Two-Decade Traditional Retail Strategy Research Theme Map Using a Bibliometric Approach e

Febby Candra Pratama, Hera Rachmahani, Mardhatillah Shanti, Riesta Devi Kumalasari, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta 11480, Indonesia

#### ID 462 The Applications of Game Theory in Processing the Orders of Company OL-A and Company OL-B

Deceree Anne A. Haboy, Daniel John B. Sacramento, Ervin Josh P. Santos, Christine Angelie Y. Taw, Rene D. Estember, Department of Industrial Engineering and Engineering Management, Mapúa University, Manila, Philippines

#### ID 463 Product Launch Decision Making for Non-preemptive Product Development Process

Adewole Mark Adegbola, Venkat Allada, Engineering Management and Systems Engineering Department, Missouri University of Science and Technology, Rolla, MO 65401, USA

#### ID 464 Application of Dynamic Programming to Sweet Delights: A Market Research for Online Baked Products

James Brylle C. Foz, Martin James D. Olan, Daniel N. Perez, Christian Jay E. Sesnorio, Rene D. Estember, School of Industrial

Engineering and Engineering Management, Mapúa University, Manila, Philippines

### ID 465 The Internet of Things start-up business model for smartization of urban transportation serving Base of the Pyramid consumers

Mohammad Jahanbakht, Department of Industrial, Manufacturing, and Systems Engineering, The University of Texas at Arlington, Arlington TX 76019, USA

Mohammad Tondro, Management of Technology and Entrepreneurship Department, Allameh Tabataba'i University, Tehran, Iran

Department of Industrial, Manufacturing, and Systems Engineering, The University of Texas at Arlington, Arlington TX 76019

#### ID 466 Investigating the Applicability of 4IR technologies in the Foundry Industry - A South African case

Yvonie N. Mawane and Robert P. Mutyavavire, Department of Mechanical and industrial Engineering, University of Johannesburg, South Africa

#### ID 467 Small-scale Manufacturing of Aluminium & Steel Products Inclusion in the Mainstream Economy

Amogelang Bogadi Sabrina Setshedi and Michael Sizwe Mkwanazi, Faculty of Engineering and the Built Environment, University of Johannesburg, Cnr Kingsway Avenue & University Road, Auckland Park, South Africa

Charles Mbohwa, Faculty of Engineering and the Built Environment, University of Johannesburg, Cnr Kingsway Avenue & University Road, Auckland Park, South Africa

### ID 468 Achieving Mass Customization Through Integrating Human Factors in Product Platform Concepts During Product Design

Oscar Ming Liu, Venkat Allada, Engineering Management and Systems Engineering Department, Missouri University of Science and Technology, Rolla, MO 65401, USA

#### ID 469 Development and Characterization of Cold Spray Coatings for Aerospace and Defense Manufacturing

Albert Alejandro and Javier A. Ortega, Department of Mechanical Engineering, The University of Texas Rio Grande Valley, Edinburg, TX, USA

Anil Srivastava and Jianzhi Li, Manufacturing and Industrial Engineering Department, The University of Texas Rio Grande Valley, Edinburg, TX 78539, USA

#### ID 470 Energy Saving in a Tobacco Curing Stove with the Use of Heat Recovery and Solar Energy

Miguel Condorí, Federico Albesa, Ileana Cruz, Instituto de Investigaciones en Energía no Convencional (INENCO), Universidad Nacional de Salta (UNSa), Consejo Nacional de Investigaciones Científicas y Técnicas (CONICET), Av. Bolivia 5150, A4408FVY, Salta, Argentina

#### ID 471 An Introduction of Aircraft Maintenance Programs Engineering Inputs to Scheduled Maintenance Operations

Aaron Rubel, M.S.E.M., Head of Aircraft Maintenance Programs Development, Intellectual Property Focal Point, Airbus Americas, Inc., Mobile, Alabama Engineering Center, Mobile, AL 36615, USA

#### ID 472 Novel In-Situ Aircraft Oxygen Cylinder Refilling Tool

Allan D. Lang, BEng., Systems Engineers Oxygen Design Office, Airbus Americas Engineering, Inc., Mobile, Alabama, 36615,

Robert Thompson, Head of Flight Test Systems Engineering Support, Airbus North Americas Final Assembly Line, Mobile, Alabama, 36615, USA

#### ID 473 Relationship Between Lean Manufacturing and Sustainability - A Bibliometric Analysis

Luis Javier Márquez Figueroa, Jorge Luis García Alcaraz, Instituto de Ingeniería y Tecnología, Universidad Autónoma de Ciudad Iuárez

Jesús Alfonso Gil López, Departamento de Economía y Empresa, Universidad de La Rioja

Efrén Romero Riaño, Director de Bibliometría, Observatorio Colombiano de Ciencia y Tecnología

### ID 474 Determining How Team Communication and Project Outcomes Evolve in A Midwestern Healthcare Company: A Case Study Approach

Gregory J. Ash, Indiana State University, Terre Haute, IN 47809, USA

Cindy L. Crowder, Professor, Department of HRD & Performance Technologies, Indiana State University, Terre Haute, IN 47809, USA

#### ID 475 Noninvasive detection of glucose levels using a commercial pulse oximeter and artificial intelligence

Luis Guzman, Antonio Martinez-Torteya and Andrés Garzafox, Universidad de Monterre, Av. Morones Prieto, Monterrey, N.L. México

### ID 476 Inventory Modeling for Automotive Spare Parts with Probabilistic Demand by Considering an Integrated Cost and Filling Rate

Wirawan Agung Nugroho, Mohammad Mi'radj Isnaini, Abdul Hakim Halim, Industrial Engineering Department, Institut Teknologi Bandung, Bandung 40132, Indonesia

#### ID 477 Development of a Dashboard to Improve Fleet Maintenance for a Food Bank

La'Tricha Parks, Steven Jiang and Lauren Davis, Department of Industrial and Systems Engineering, North Carolina A&T State University, Greensboro, NC 27411, USA

#### ID 478 ECONOMICS OF SMALL-SCALE POWER GENERATION FROM RENEWABLE AND HYBRID SOURCES

Mohd Faiz Che Wahab, Md Mizanur Rahman, Aminuddin Saat, Hasan Mohd Faizal and Mazlan Abdul Wahid, School of Mechanical Engineering, Faculty of Engineering, Universiti Teknologi Malaysia (UTM), 81310 Johor Bahru, Johor, Malaysia

#### ID 479 Digital Twin for Urban Spaces: an Application

Diego M. Botín-Sanabria, Jorge G. Lozoya-Reyes, Roberto C. Vargas-Maldonado, Karen L. Rodríguez-Hernández, Ricardo A. Ramírez-Mendoza, Mauricio A. Ramírez-Moreno, Jorge de J. Lozoya-Santos, School of Engineering and Science, Mechatronics Engineering Department, Tecnológico de Monterrey, Campus Monterrey Eugenio Garza Sada 2501 Sur, Monterrey, México

#### ID 480 Modelling and Mapping University Business Process level 2

Bachtiar H. Simamora, Management Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia

Wibowo Kosasih, Management Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia 11480

Natalia, Management Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia 11480

Rudi, Management Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia 11480

Lily Leonita, Management Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia 11480

#### ID 481 GMove: Gyroscopic Controlled Robotic Movement

Raymond Yap, Valley Christian High School, 100 Skyway Drive, San Jose, CA, USA

### ID 482 Classification of Driving Styles in the Metropolitan Area of Bucaramanga with On-board Monitoring (OBD-II) in Real Road Conditions

Juan Danilo Molina Martínez. Brayan Ferney Acuña Olivar and Jessica Gissella Maradey Lázaro, Mechatronics Engineering Program, Universidad Autónoma de Bucaramanga, Bucaramanga, Santander, Colombia

Jose Ignacio Huertas Cardozo, Mechanical Engineering Department, Tecnológico de Monterrey, Monterrey, Nuevo León, México

#### ID 483 Use of Technology for Better Understanding of Cities

Karen L. Rodríguez-Hernández, Ana L. Gaxiola-Beltrán, Jorge Narezo-Balzaretti, Mauricio A. Ramírez-Moreno, Ricardo A.

Ramírez-Mendoza, Jorge de J. Lozoya-Santos, School of Engineering and Sciences, Tecnologico de Monterrey, Campus Monterrey, Eugenio Garza Sada 2501 Sur, Monterrey, Mexico

#### ID 484 Energy efficiency analysis of the electric traction systems with simple traction drive and in-wheel motor

Sebastián Fernández Herrera, School of Automotive Mechanics, University of Azuay, Cuenca, Ecuador

Efrén Fernández Palomeque, School of Automotive Mechanics, University of Azuay, Cuenca, Ecuador

#### ID 485 Detection of Engineering Interest in Children Through an Intelligent System Using Biometric Signals

Gustavo Olivas Martínez, Milton Osiel Candela Leal, Juan Carlos Ocampo Alvarado, Luis Fernando Acosta Soto, Diego Mauricio Botín Sanabria, Gladys Guadalupe Díaz Armas, Aimé Judith Aguilar Herrera, Esther Aimeé Delgado Jiménez, Myriam Alanis Espinosa,

Mauricio Adolfo Ramírez Moreno, Rubén Morales Menéndez, Ricardo Ambrocio Ramírez Mendoza, Jorge de Jesús Lozoya Santos, School of Engineering and Sciences, Tecnológico de Monterrey, Monterrey, Nuevo León, México

Jorge Murrieta González, Aleyka García Briseño, MachineCare Education, Monterrey, Nuevo León, México

### ID 486 The Bullwhip Effect in the Northern States of Mexico: an Econometric and Sustainable Analysis in the Transport and Logistics Sector

Fabricio Moreno-Baca, Patricia Cano-Olivos, Industrial & Logistics Faculty, Universidad Popular Autónoma del Estado de Puebla, 17 Sur 901, Barrio de Santiago, 72410, Puebla, Mexico

#### ID 487 Real-time Biofeedback System for Interactive Learning using Wearables and IoT

Milton O. Candela-Leal, Juan M. García-Briones, Gustavo Olivas-Martínez, Rafael Abrego-Ramos, Gabriela J. Álvarez-Espinoza, Diego M. Botín-Sanabria, Karen L.Rodríguez-Hernández, José F. Pachego-Quintana, Sofía Sampogna-Montemayor, Ruben Morales-Menendez, Ricardo A. Ramírez-Mendoza, Mauricio A. Ramírez-Moreno, Jorge de J. Lozoya-Santos, School of Engineering and Sciences, Tecnologico de Monterrey, Monterrey, NL 64849, Mexico

Juan C. Tudón-Martínez., School of Engineering and Technologies, Universidad de Monterrey, San Pedro Garza García, NL 66238, Mexico

#### ID 488 Digital Twin for a Vehicle: ElectroBus Case Study

Diego M. Botín-Sanabria, Diego A. Santiesteban-Pozas, Guillermo Sáenz-González, Ricardo A. Ramírez-Mendoza, Mauricio A. Ramírez-Moreno, Jorge de J. Lozoya-Santos, School of Engineering and Science, Mechatronics Engineering Department, Tecnológico de Monterrey, Campus Monterrey, Eugenio Garza Sada 2501 Sur, Monterrey, Mexico

#### ID 489 Conscious Mobility for Urban Spaces Application

Jorge G. Lozoya-Reyes, Roberto C. Vargas-Maldonado, Mauricio A. Ramírez-Moreno, Jorge de J. Lozoya-Santos, Vianney Lara-Prieto, Maria I. Ruiz-Cantisani, Jorge Narezo Balzaretti, Gabriel J. Leal-Cantu, Guadalupe Lara-Sanchez, Vanessa Ontiveros-Yanes, Dalia L. Hurtado-Gonzalez, Jose M. Aguilar-Zamudio, Daniela I. Balderas-Aldape, Alejandro Sanchez-Gomez, Jose A. Galvan-Galvan, School of Engineering and Sciences, Mechatronics Engineering Department, Tecnologico de Monterrey, Campus Monterrey, Eugenio Garza Sada 2501 Sur, Monterrey, Mexico

### ID 490 Development of an On-Board System for Measuring the Implicit Variables of the Driving Cycle for 250cc Carbureted Motorcycles

Ray Stevenson Amaya Maldonado, Santiago Uribe Jaimes and Jessica Gissella Maradey Lázaro, Mechatronics Engineering Program, Universidad Autónoma de Bucaramanga, Bucaramanga, Santander, Colombia

Jose Ignacio Huertas Cardozo, Mechanical Engineering Department, Tecnológico de Monterrey, Monterrey, Nuevo León, México

### ID 491 Assessment of the process of generation and final use of electric energy in Colombia based on energy efficiency indicators

Juan Zapata-Mina, Melissa Valencia-Duque, Juan José Tabares y Juan Esteban Tibaquirá, Faculty of Mechanical Engineering, Universidad Tecnológica de Pereira, Pereira, Colombia

#### ID 492 Facial Recognition System for Access Control through the Application of Convolutional Neural Networks

Edison Vasquez and Monica Karel Huerta, Grupo de Telecomunicaciones GITEL, Universidad Politecnica Salesiana, Cuenca, Ecuador

Roger Clotet Martinez, Astronomy, Big Data and Computing Science (ABACO), Valencian International University (VIU), Valencia, Spain

José-Ignacio Castillo-Velázquez, ADVNETLAB, Telecommunications Engineering Department, Autonomous University of Mexico City, Mexico

### ID 493 Predicting subgrain size and dislocation density in machining-induced surface microstructure of Nickel using supervised model-based learning

Faruk Abedrabbo, Department of Industrial Engineering, Universidad de los Andes, Carrera 1a No. 18A-10, Bogota, Colombia

Juan Camilo Osorio, Department of Mechanical Engineering, Universidad de los Andes, Carrera 1a No. 18A-10, Bogota, Colombia

Sepideh Abolghasem, Department of Industrial Engineering, Universidad de los Andes, Carrera 1a No. 18A-10, Bogota, Colombia

Carlos Valencia, Department of Industrial Engineering, Universidad de los Andes, Carrera 1a No. 18A-10, Bogota, Colombia

Fabio Rojas, Department of Mechanical Engineering, Universidad de los Andes, Carrera 1a No. 18A-10, Bogota, Colombia

#### ID 494 Performance Comparison for File Transfers for Four Advanced Networks in GNS3 under IPv6

Jose-Ignacio Castillo-Velázquez, ADVNETLAB, Telecommunications Engineerig Department, Autonomous University of Mexico City, México

Monica Karel Huerta, Grupo de Telecomunicaciones GITEL, Universidad Politecnica Salesiana, Cuenca, Ecuador

#### ID 495 A Survey of Approaches to Describe Driving Patterns

Jessica Gissella Maradey Lázaro, Mechatronics Engineering Program, Universidad Autónoma de Bucaramanga, Bucaramanga, Santander, Colombia

Jose Ignacio Huertas Cardozo, Mechanical Engineering Department, Tecnológico de Monterrey, Monterrey, Nuevo León, México

#### ID 496 Microgrid Supplier Selection Problem Considering Euclidean Distance and Ideal Vector System

Trinidad Reyes and Jose F. Espiritu, Industrial Manufacturing and System Engineering Department, The University of Texas at El Paso, TX 79968, USA

#### ID 497 Service Quality Assessment of Local Government Units' COVID Pandemic Response using Factor Analysis

Gabriel C. Bucu, Department of Industrial and Systems Engineering, De La Salle University, Taft Avenue, Manila, 1002, Philippines and Department of Industrial Engineering, University of Santo Tomas, España Boulevard, Sampaloc, Manila, 1008, Philippines

Ariel A. Salvador Jr., Department of Industrial and Systems Engineering, De La Salle University, Taft Avenue, Manila, 1002, Philippines

Department of Industrial Engineering, University of Santo Tomas, España Boulevard, Sampaloc, Manila, 1008, Philippines

Joehanna K. Ngo, Department of Industrial Engineering, University of Santo Tomas, España Boulevard, Sampaloc, Manila, 1008, Philippines

Carlos Ignacio Jr. P. Lugay, Department of Industrial Engineering, University of Santo Tomas, España Boulevard, Sampaloc, Manila, 1008, Philippines

### ID 510 Impact of the Country-of-Origin Image on the Purchase Intention of Foreign Products in Mexican Consumers During the COVID-19 Pandemic

Alexis Jazmín Morán-Huertas, Facultad de Contaduría Pública y Administración, Universidad Autónoma de Nuevo León, San Nicolás de los Garza, Nuevo León, México

### ID 511 Communication Experience of The Neighborhood Chief in Covid 19 Handling in Kelurahan Pangkalan Mansyur Medan

Nadra Ideyani Vita, Nina Siti Salmaniah Siregar and Agnita Yolanda, Communication Science Department, Faculty of Political and Social Sciences, Universitas Medan Area, North Sumatera, Indonesia

Feni Agus Bintang and Ridwan Nasution, Communication Science Department, Faculty of Political and Social Sciences, Universitas Islam Sumatera Utara, North Sumatera, Indonesia

Indrayanti, Communication Science Department, Faculty of Political and Social Sciences, Universitas Hassanudin, Makasar, Indonesia

Waridah, Covernance Science Department, Faculty of Political and Social Sciences, Universitas Medan Area, Medan, North Sumatera, Indonesia

### ID 512 Strategies for Utilizing Instagram as a Digital Marketing Communication Media in Samudera Kuphi Medan Coffeeshop

Abdul Haris and Effiati Juliana Hasibuan, Communication Science Department, Faculty of Political and Social Sciences, Universitas Medan Area, North Sumatera, Indonesia

Siti Hawa Lubis, Magister Psychology, Universitas Medan Area, North Sumatera, Indonesia

Hasrat Effendi Samosir, Da'wah and Communication Faculty, Universitas Islam Negeri Sumatera Utara, Universitas Medan Area, North Sumatera, Indonesia

### ID 513 Policies, Roles and Relationships between Village Government and Community in Tourism Management in Situngkir Village, Pangururan District, Toba Samosir Regency, North Sumatra, Indonesia

Agung Suharyanto, Bebby Masitho Batubara and Adam, Public Administration Study Program, Faculty of Social and Political Sciences, Universitas Medan Area, Indonesia

Armansyah Matondang & Syafruddin Ritonga, Communication Science Study Program, Faculty of Social and Political Sciences, Universitas Medan Area, North Sumatera, Indonesia

Citra Ramadhan & Anggreni Atmei Lubis, Faculty of Law, Universitas Medan Area, North Sumatera, Indonesia

#### ID 514 How Media Sees the Brawl Between Residents in Belawan, North Sumatra, Indonesia (Case Study)

Dedi Sahputra & Rehia Isabella Karenina Barus, Communication Science Study Program, Faculty of Social and Political Sciences, Universitas Medan Area, North Sumatera, Indonesia

Bahrum Jamil, Indra Muda and Nina Angelia, Public Administration Study Program, Faculty of Social and Political Sciences, Universitas Medan Area, North Sumatera, Indonesia

Niarita Bukit, Universitas Sisingamangaraja XII Tapanuli, North Sumatera, Indonesia

Agus Mulia, North Sumatra Province Language Center, Language Development and Development Agency. Ministry of Education, Culture, Research and Technology, North Sumatera, Indonesia

#### ID 515 Efficient Cumulative Sum Chart for Monitoring Fraction Nonconforming

Fathy Alkhatiba, Salah Haridyb, Mohammad Shamsuzzamanc, Imad Alsyoufd, Department of Industrial Engineering and Engineering Management University of Sharjah Sharjah, UAE

Ahmed Maged, Deapartment of Systems Engineering and Engineering Magamanent, University of Hong Kong Kowloon, Hong Kong, China

#### ID 516 A Review of Engineering Education Study in Indonesia

Elsa Rosyidah, Environmental Engineering Department, Universitas Nahdlatul Ulama Sidoarjo, Sidoarjo 61218, Indonesia

Nuzula Firdausi, English Language Education Department, Universitas Nahdlatul Ulama Sidoarjo, Sidoarjo 61218, Indonesia

Achmad Wahyudi and Machfudzil Asror, Institute for Research and Community Services, Universitas Nahdlatul Ulama Sidoarjo, Sidoarjo 61218, Indonesia

Muh. Aris Izzudin, Elementary Education Teacher Department, Universitas Nahdlatul Ulama Sidoarjo, Sidoarjo 61218, Indonesia

#### ID 517 Role of Media in Africa Elections: A Comparative Analysis of Nigeria and Ivory Coast

Harrison Oluwaseyi Ogunkalu, Eurasia Studies Department, Niğde Ömer Halisdemir Üniversitesi, Rectorate, Central Campus, Bor Yolu, Nigde 51240, Turkey

Anthony ENIAYEJUNI, International Relations Department, Cyprus International University, Haspolat-TRNC, Mersin 10, Turkey

#### ID 518 Study on the Legality of Indonesian Micro Business Products Based on Economic and Law Regulations

Rr. Hermien Tridayanti, Rr. Iswachyu Dhaniarti, I Putu Artaya, Rizal Bahaswan, Adhi Prawito, Departement of Management, Departement of Law, Departement of Civil Engineering, University Narotama Surabaya

Devita Anggraini Lestari, Departement of Public Health, Airlangga University Surabaya

#### ID 519 Investigation of Simple Moving Average: Pre-COVID-19 Evidence from the Tokyo Stock Exchange

Wisnu Panggah Setiyono, Department of Management, Faculty of Business, Law and Social Science, Universitas Muhammadiyah Sidoarjo, Sidoarjo, East Java 61215, Indonesia

Liau Zheng Pin, Kinematic Business Management Sdn Bhd, Puchong Gateway, 47110 Puchong, Selangor, Malaysia

Tsabita Karima, Department of Digitally Business, Faculty of Business, Law and Social Science, Universitas Muhammadiyah Sidoarjo, Sidoarjo, East Java 61215, Indonesia

#### ID 521 An aggregated time series forecasting model for the healthand wellness sector: case of a Brazilian retail company

Carlos Ernani Fries and Vitor Rodrigues, Department of Production and Systems Engineering, Federal University of Santa Catarina, Florianópolis, SC, Brazil

#### ID 522 Financing Small-Scale Manufacturing in South Africa - The Egg and Chicken Problem

Sizwe Mkwanazi, Department of Business Management, University of Johannesburg, Cnr Kingsway & University Road, Auckland Park, South Africa

#### ID 523 Monitoring Multi-Attribute Characteristics using a Combined Scheme of np and EWMA Charts

Farah Alyassi, Salah Haridy, Mohammad Shamsuzzaman, Imad Alsyouf, Department of Industrial Engineering and Engineering Management, University of Sharjah, Sharjah 27272, United Arab Emirates

#### ID 525 Walnut Oil: Variation in oxidation levels dependent on temperature in the extraction methodology

Brenda Jamilett Cruz Rodríguez, Monterrey Institute of Technology and Higher Education

Andres Carvajal Morales, Monterrey Institute of Technology and Higher Education

Andres Carvajal Morales, Monterrey Institute of Technology and Higher Education

Cielo A. Hernández Ricardez, Monterrey Institute of Technology and Higher Education

Abelardo Fuerte Beyer, Monterrey Institute of Technology and Higher Education

Renato Gallifa Quintanilla, Monterrey Institute of Technology and Higher Education

Jorge Hernández Sosa, Monterrey Institute of Technology and Higher Education

Diego Cárdenas, Monterrey Institute of Technology and Higher Education

#### ID 527 Comparison of the Elaboration of Hard Apple Cider with Fresh and Frozen Wort

Alejandra Villarreal Reyes, Ivana Karina Reyes Rubio, Mónica Pacheco Fernández, Eduardo Augusto Saldivar Balboa, Javier

Rojas Sánchez, Oscar Eduardo Ruiz Adame and Marcelo Sauza Sada, Instituto Tecnológico y de Estudios Superiores de Monterrey Campus Monterrey, Nuevo León, México

#### ID 541 Decision Support System Application with Simple Additive Weighting

Cucu Ika Agustyaningrum, Department of Engineering & Informatics, Universitas Bina Sarana Informatika, Bandung, Indonesia 40291

Doni Purnama Alamsyah, Leni Susanti, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia 11480

Yudi Ramdhani, Rizki Tri Prasetio, Computer Science Program, Universitas Adhirajasa Reswara Sanjaya, Bandung, Indonesia 40291

#### ID 542 Decision Support System of Food and Beverage Franchise Business

Yudi Ramdhani, Rizki Tri Prasetio, Teguh Wahyu Nugroho, Computer Science Program, Universitas Adhirajasa Reswara Sanjaya, Bandung, Indonesia 40291

Doni Purnama Alamsyah, Leni Susanti, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia 11480

#### ID 543 The Evaluation of Acceptance Samsung Smart Switch Application as Data Sharing Media Using UTAUT

Rizki Tri Prasetio, Yudi Ramdhani, Computer Science Program, Universitas Adhirajasa Reswara Sanjaya, Bandung, Indonesia 40291

Doni Purnama Alamsyah, Kurniadi, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia 11480

### ID 544 Comparation of SVM Algorithm and Neural Network with Feature Optimization Based on Genetic Algorithm in Determining Immunotherapy Success in Cancer Disease

Yudi Ramdhani, Rizki Tri Prasetio, Ryan Hidayat, Computer Science Program, Universitas Adhirajasa Reswara Sanjaya, Bandung, Indonesia

Doni Purnama Alamsyah, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia 11480

#### ID 546 Jidoka enhances unilateral e-marketing and predicts e-stock although uncertainty modus operandi case

Ahmed M. Abed, Dept. of Industrial Engineering, Zagazig University, Egypt

Tamer S. Gaafar, Dept. of computer and System Engineering, Zagazig University, Egypt

#### ID 548 An Understanding of the Food Chain System in Malaysia: A Mini-Review Approach

Siti Aishah Mohd Zakuan, Latifah Abdul Ghani, Zikri Muhammad, Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia

Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor Malaysia

#### ID 549 Recyclable Materials Flows in Municipal Solid Waste System in Terengganu: An Application of Material Flow Analysis

Fatin Alias, Latifah Abdul Ghani, Rahaya Md Jamin, Siti Aisyah Saat, Zikri Muhammad, Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia

Nora'aini Ali, Faculty of Ocean Engineering Technology and Informatics, Universiti Malaysia Terengganu, Kuala Nerus 21030, Terengganu, Malaysia

Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor Malaysia

#### ID 550 Social Impact of Small Seawater Desalination Plant of Local Community: A Social Life Cycle Assessment

Ilyanni Syazira Nazaran, Latifah Abdul Ghani, Zikri Muhammad, Jumadil Saputra, Faculty of Business, Economic and Social Development, Universiti Malaysia Terengganu, 21030, Kuala Nerus, Terengganu, Malaysia

Nora'aini Ali, Faculty of Ocean Engineering Technology and Informatics, Universiti Malaysia Terengganu, Kuala Nerus 21030, Terengganu, Malaysia

Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor Malaysia

### ID 551 Relationship of Working Capital Management and Leverage towards Firm Value: An Evidence from Indonesia Stock Exchange

Rico Nur Ilham, Henny Irawati, Rany Gesta Putri Rais, Nurhasanah, Faculty of Economics and Business, Universitas Malikussaleh, Blang Pulo, Muara Satu, Aceh Utara, 24355 Aceh, Indonesia

Lakharis Inuzula, Faculty of Economics and Business, Universitas Islam Kebangsaan Indonesia, Bireun 24212 Aceh, Indonesia

Irada Sinta, Faculty of Agriculture, Universitas Malikussaleh, Releut, Aceh Utara, 24355 Aceh, Indonesia

Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia

## ID 552 Analyzing the Economic Stability during COVID-19 Pandemic in Indonesia: The Moderating Role of Money Velocity Rico Nur Ilham and Yanita, Faculty of Economics and Business, Universitas Malikussaleh, Blang Pulo, Muara Satu, Aceh Utara, 24355 Aceh, Indonesia

Irada Sinta, Faculty of Agriculture, Universitas Malikussaleh, Releut, Aceh Utara, 24355 Aceh, Indonesia

Monetarist Butar Butar, Maulana Majied Sumatrani Saragih, Faculty of Economics and Business, Universitas Darma Agung, Medan, 20153 Sumatera Utara, Indonesia

Rodi Syafrizal, Sekolah Tinggi Ilmu Ekonomi Bina Karya, Tebing Tinggi, 20631 Sumatera Utara, Indonesia

Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia

#### ID 554 Development of a Mechatronics System for Measuring Soil pH and approximating NPK Value

Saheed Akande and Mgbeze Emmanuel Chukwuweike, Department of Mechanical and Mechatronics Engineering, Afe Babalola University, Ado-Ekiti, Nigeria

Saka Saheed Olaoluwa, National Biotechnology Development Agency, Ilesha, Osun State, Nigeria

### ID 555 Exploration of Medicinal Plants in Pamekasan District: Ethnobotany Study in Herbal Medicine to Prevent Symptoms of Tuberculosis Infection

Khoirin Maghfiroh, Department of Biology, Faculty of Mathematics and Natural Sciences, Brawijaya University, Department of Food Science and Technology, Faculty of Agriculture, Yudharta University

Jati Batoro, Sri Widyarti and Sutiman Bambang Sumitro, Department of Biology, Faculty of Mathematics and Natural Sciences, Brawijaya University

#### ID 556 Analysis of Risk Based Capital and EWS as Early Warning of Risk Factors in Sharia Life Insurance in Indonesia

Firly Irhamni and Denis Fidhita Karya, Department of Management, Faculty of Economic and Business, Universitas Nahdlatul Ulama Surabaya, Surabaya Indonesia

#### ID 557 Econometric Panel Analysis of Transportation Sub Sector companies: Firm-specific factors Approach

Firly Irhamni, Ulfiyah Mazidatun Ni'mah, Riyan S. Putra, Department of Management, Universitas Nahdlatul Ulama, Surabaya, Indonesia

#### ID 558 Macroeconomic Determinants of NAV (Composite Stock Price Index as Variable Z)

Firly Irhamni S.I.P., M.M and Vina Safiyyah S.M., Department of Management, Faculty of Economics and Business, Universitas Nahdlatul Ulama, Surabaya, Indonesia

#### ID 565 Spiritual Leadership and Employee Performance: The Mediating Role of Employee Engagement

Muadi Heryawan, Joko Suyono, Nurul Aini, Narotama University, Surabaya, Indonesia

Damarsari Ratnasahara Elisabeth, STIE Mahardhika Surabaya, Surabaya, Indonesia

Sukaris, University of Muhammadiyah Gresik

### ID 566 Tax Relaxation During the Covid -19 Pandemic Against Individual Taxpayer Compliance in SPT Reporting at the Pondok Aren Tax Service Office, South Tangerang City

Ambarwati and Indra Sumarna Sobari and Rudi Kristanto, Institut Ilmu Sosial dan Manajemen STIAMI, Jakarta, Indonesia

Agus Sunarya Sulaeman and Muhammad Heru Akhmadi, Politeknik Keuangan Negara STAN, Jakarta, Indonesia

#### ID 567 The Effect of Intelligence Quotient and Emotional Quotient on Lecturer Performance Mediated by Creativity

Hery Winoto Tj, Melitina Tecoalu, Fredella Colline, Daniel Widjaja and Roseline Mannuela, Center of Innovation in Applied Management and Behavioral Economy (CIAMBE), Faculty of Economics and Business, Krida Wacana Christian University

#### D 568 The Mediating Role of Dividend Policy in Relationship Between Profitability and Firm Size on Firm Value

Ivan Wijaya, Nurul Aini, Joko Suyono, Zetayu Vinata Meriel, Narotama University

Damarsari Ratnasahara Elisabeth STIE Mahardhika Surabaya, Indonesia

### ID 569 The Mediating Role of Job Satisfaction in Relationship Between Organizational Commitment and Employee Performance

Abdul Hamid, Hermien Tridayanti, Hendry Eka Prastiya, Tri Utoyo, Joko Suyono, Narotama University, Surabaya, Indonesia

### ID 570 The Mediating Role of Knowledge Sharing in Relationship Between IT Application Usage and End-User Focus on Employee Performance

Hendry Eka Prastiya, Hermien Tridayanti, Abdul Hamid, Nasyik Ifadah, Joko Suyono, Narotama University, Surabaya, Indonesia

#### ID 571 Work Loyalty and Employee Performance: The Mediating Role of Organizational Commitment

Nasyik Ifadah, Arasy Alimudin, Tri Utoyo, Joko Suyono, Narotama University, Surabaya, Indonesia

Subas, Sekolah Tinggi Agama Islam Al Fithrah, Surabaya, Indonesia

#### ID 572 Transformational Leadership and Turnover Intention: The Mediating Role of Job Satisfaction

Zetayu Vinata Meriel, Joko Suyono, Erwin Pramastya Sabatini, Ivan Wijaya, Narotama University, Surabaya, Indonesia

Damarsari Ratnasahara Elisabeth, STIE Mahardhika Surabaya, Surabaya, Indonesia

#### ID 573 Confucian Values on Disability

Kristan, Character Building Development Center, Computer Science Department, School of Computer Science, Bina Nusantara University, Jakarta, Indonesia

Nuah P. Tarigan, Universitas Pelita Harapan, Doctor of Research in Management in Education Leadership program, Jakarta, Indonesia

#### ID 574 Disability in the view of Buddhism

Heru Widoyo Nuah P. Tarigan, Character Building Development Center, Computer Science Department, School of Computer Science, Bina Nusantara University Jakarta, Indonesia 11480

Universitas Pelita Harapan, Doctor of Research in Management in Education Leadership program, Jakarta 12930.

### ID 575 Correlation of Citizenship and Physical Disabilities in the context of Indonesia and New Zealand, especially in the Provision of Public Amenities

Nuah P. Tarigan, Character Building Development Center, Computer Science Department, School of Computer Science, Bina

Nusantara University Jakarta, Indonesia 11480

Universitas Pelita Harapan, Doctor of Research in Management in Education Leadership program, Jakarta 12930.

Edi Natanael Tarigan, I-GAN SOLUTIONS LTD, Auckland, New Zealand

### ID 577 Analysis of Risk Based Capital and EWS as Early Warning of Risk Factors in Sharia Life Insurance Companies and Sharia Life Insurance Units in Indonesia

Firly Irhamni and Denis Fidhita K., Department of Management, Faculty of Economic Business and Technology Digital, Universitas Nahdlatul Ulama Surabaya, Surabaya Indonesia

#### ID 579 Crisis Management Covid-19 of Indonesian Government: Framing The News On Online Media

Euis Komalawati, Muhammad Affan, Alfirahmi, Jhulianfika Irrianda, Retno Ekasari, Department of Communication Management, Stiami Institute of Social Sciences and Management, Jakarta, Indonesia

### ID 580 The Effect of Covid-19 on Micro and Small Business Community: A Study of the Micro and Small Business Community in Jakarta

Adhy Firdaus, STIE (College of Economics) STIE 'Ganesha' Jakarta, Indonesia

Devie Iriani, Lecturer at STIAMI Social and Management Science Institute, Jakarta, Indonesia.

#### ID 581 Sustaining Customers In The Pandemic Period Through Shariah Marketing Strategy Based On Human Spirit

Fadali Rahman, Aang Kunaifi, Abd. Rosyid, Institut Agama Islam Al-Khairat Pamekasan, East Java Indonesia

Wildan Fawaid, Institut Agama Islam Negeri Kediri, East Java Indonesia

#### ID 582 Digital Marketing Tourism West Sumatra: Gordon Ramsay's Youtube Video Semiotics Analysis

Euis Komalawati, Department of Communication Management, Stiami Institute of Social Sciences and management

Heni Pridia Rukmini Sari , Lila Muliani, Inti Krisnawati, Department of Hospitality and Tourism, Stiami Institute of Social Sciences and management Jakarta, Indonesia

#### ID 583 The Influence Of Conference Class Technology Using Zoom On E-learning In The Covid-19 Pandemic

Albert Riyandi, STMIK Nusa Mandiri 1

, Bambang Wijonarko, Universitas Bina Sarana Informatika

Aji Sudibyo, Universitas Bina Sarana Informatika

Imron Imron4, M. Sinta Nurhayati5, , 2,3, Jl. Jati Waringin no 2 Jakarta Indonesia1, Jl. Kramat 98 Jakarta Indonesia2,3

#### ID 584 The Winner's Curse as a Driver of Cost Overruns in Public Construction Projects

Yahel Giata, Department of Industrial Engineering, Jerusalem College of Technology.

Amichai Mitelmanb, Department of Civil Engineering, Ariel University.

#### ID 585 Analysis of Green Supply Chain Management Practices in Automotive Industry Based on Green SCOR MODEL

TRONNEBATI Imane and JAWAB Fouad, Technologies and Industrial Services Laboratory, Higher school of technology, Sidi Mohamed Ben Abdellah University, Fez - Morocco

### ID 586 Analysis of Relative Lateral Drift between Adjacent Floors of the High-Rise Building Structure without and with Seismic Base Isolations

Fakhry Ajie Hidayat, Graduated from the Civil Engineering Master Program, Trisakti University, Indonesia

Agus Hadi Santosa Wargadipura, Senior Lecturer in the Civil Engineering Master Program, Trisakti University, Indonesia

#### ID 587 Identification Dominant Factors of Infrastructure Development in Tourist Natural Reserves

Darmawan Pontan, Ryan Faza Prasetyo, Reky Prayogo, Wishnu Arindra Pranoto, Civil Engineering Department, Universitas Trisakti, Jakarta, 11440, Indonesia

#### ID 588 Identification of Dominant Factors Affecting the Successful Development of Highway Construction Projects

Darmawan Pontan, Ryan Faza Prasetyo, Tomi Adenugroho, Adhiriswa Nur Idatama, Civil Engineering Department, Universitas

#### ID 589 Control Of Rebar Waste Rate Using Building Information Modelling : A Case Study Of Suspended Road Structure

Ryan Faza Prasetyo and Darmawan Pontan, Universitas Trisakti, Jl. Kyai Tapa No.1, Jakarta Barat, DKI Jakarta, Indonesia

### ID 590 The Determinants of Electronic Medical Record Satisfaction: Communication Styles, Computer Efficacy and Competency

Erwin Pramastya Sabatini, Reswanda, Joko Suyono, Narotama University, Surabaya, Indonesia

Damarsari Ratnasahara Elisabeth, STIE Mahardhika Surabaya, Surabaya, Indonesia

Sukaris, University of Muhammadiyah Gresik

#### ID 591 Container Operation and Distribution Costs on The Work Productivity Terminal on Domestic Containers

Nugroho Dwi Priyohadi, Mudayat, Dian Arisanti, Agung Prasetyo, Sekolah Tinggi Ilmu Administrasi dan Manajemen Kepelabuhan (STIAMAK), Barunawati Surabaya, Indonesia

### ID 592 Effect of Operator Performance and Effectiveness Unloading Equipment on Container Handling at Terminal on Domestic Containers

Nur Widyawati, Juli Prastyorini, Anggit Julio, Sekolah Tinggi Ilmu Administrasi dan Manajemen Kepelabuhan (STIAMAK) Barunawati Surabaya, Indonesia

Joko Suyono, Narotama University, Surabaya, Indonesia

### ID 593 Effectiveness of HMC Equipment, Workload and Work Stress on Work Productivity of Jamrud Terminal Surabaya Employees

Nugroho Dwi Priyohadi, Soedarmanto, Vixtor Mada Hardani, Sekolah Tinggi Ilmu Administrasi dan Manajemen Kepelabuhan (STIAMAK) Barunawati Surabaya, Indonesia

Joko Suyono, Narotama University, Surabaya Indonesia

#### ID 594 Quality Improvement of Indonesian Migrant Worker Entrepreneurs in Taiwan during Covid-19 Pandemic

Beni Dwi Komara, Sukaris, Aries Kurniawan, Indro Kirono, and Nur Cahyadi, Faculty of Economics and Business, Universitas Muhammadiyah Gresik, Gresik Regency, East Java, Indonesia

#### ID 595 Optimization of Service Quality: Quality Function Deployment Approach

Sukaris, M. Fakhrudin Syah, Aries Kurniawan, and Nadhirotul Laily, Universitas Muhammadiyah Gresik, Gresik Regency, East Java, Indonesia

Joko Suyono, Narotama University, Surabaya, Indonesia 60117

### ID 596 Improving Company Competitiveness Through Human Resources Development Strategies in Freight Forwarding Companies

Indro Kirono, Sukaris, Abi Hanif Dzulquarnain, Abdurrahman Faris Indriya Himawan, Management Department, Faculty of Economics and Business, Universitas Muhammadiyah Gresik, Gresik Regency, East Java, Indonesia

Joko Suyono, Department of Management and Business, Narotama University, Surabaya, Indonesia 60117Indonesia

#### ID 597 E-Learning Platform to Assess Students' Performance in Industrial Revolution 4.0

Ana Christanti, Muawwinatul Laili, Evi Mahsunah and Masyitah Noviyanti, English Language Education Department, Universitas Nahdlatul Ulama Sidoarjo, Sidoarjo 61218, Indonesia

### ID 598 The Effect of SAP S/4 HANA Implementation on the Supply Chain Management Process to Company Benefits in Construction Service Companies

Fadilla Dwi Pratiwi and Jane Sekarsari Tamtana, Civil Engineering Master Program, Faculty of Civil Engineering and Planning, Universitas Trisakti, Jl. Kyai Tapa No.1, Jakarta

### ID 599 The Analysis Of Sap Project System Module's Implementation On Data Accuracy As Net Benefit For Infrastructure Projects

Achmad Jofimar Ali, Civil Engineering Master Program, Faculty of Civil Engineering and Planning, Trisakti University, Jakarta, Indonesia

Jane Sekarsari, Civil Engineering Master Program, Faculty of Civil Engineering and Planning, Trisakti University, Jakarta, Indonesia

#### ID 600 Selection of Repair and Strengthening Methods Structure Powerhouse To Optimize Operational Activities

Argya Jaganaputra, Bambang E Yuwono, Master Degree Faculty of Civil Engineering and Planning, Trisakti University, Jakarta, Indonesia

### ID 609 An Investigation of Perception and Socialization of Financial Accounting Standards (SAK) among Micro, Small and Medium Enterprises (MSMEs) Actors in Pekalongan District, Indonesia

Muti Alfiyah and Imam Prayogo, Diploma of Financial Accounting, Faculty of Vocational School, PSDKU Universitas Diponegoro, Kajen, Pekalongan, 51161 Jawa Tengah Indonesia

Daljono, Department of Accounting, Faculty of Economics and Business, Universitas Diponegoro, Tembalang, Semarang, Jawa Tengah 50275, Indonesia

Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia

Teuku Afrizal, Department of Public Administration, Faculty of Social Science and Political Science, Universitas Diponegoro, Tembalang, Semarang, Jawa Tengah 50275, Indonesia

#### ID 610 Leadership of the Principal on Laboratory Elementary School of Unimuda Sorong in Improving the Quality of Education

Manut Pratikno, Universitas Pendidikan Muhammadiyah Sorong, Indonesia, Institut Agama Islam Negeri (IAIN) Sorong, 98417, Sorong, Indonesia

Muhammad Rusdi Rasyid, Institut Agama Islam Negeri (IAIN) Sorong, 98417, Sorong, Indonesia

Ismail Suardi Wekke, Institut Agama Islam Negeri (IAIN) Sorong, 98417, Sorong, Indonesia The Jusuf Kalla Research Center for Bugis Makassar Cultural Studies, Universitas Muslim Indonesia

### ID 611 The Effect Of Investment Strategy And Risk Management On Bitcoin Online Trading In Bitcoin Investors, (Study on College Students in Bandung City, Indonesia)

Budi Rustandi Kartawinata, Telkom University, Jalan Terusan Buah Batu, Bandung 40257, Indonesia, Business Administration

Budi Santoso, Telkom University, Jalan Terusan Buah Batu, Bandung 40257, Indonesia, Business Administration

Aldi Akbar, Telkom University, Jalan Terusan Buah Batu, Bandung 40257, Indonesia, Business Administration

R.Susanto Hendiarto, Universitas Widyatama, Jl. Cikutra no 204 A Bandung 40124, Indonesia

#### ID 612 East Java OPOP: Increasing the Growth of SMEs in Islamic Boarding Schools during the COVID-19 Pandemic

Muhafidhah Novie, Ayu Lucy Larassaty, Laily Muzdalifah and Sharifah Ageng Pratiwi, Management Department, Universitas Nahdlatul Ulama Sidoarjo, Sidoarjo 61218, Indonesia

Elsa Rosyidah, Institute for Research and Community Services, Universitas Nahdlatul Ulama Sidoarjo, Sidoarjo 61218, Indonesia

#### ID 613 LAC pilot project for green last-mile urban freight delivery services

Prato Daniel and Reinoso Camila, Latin-American Center For innovation in Logistics, Bogotá, Colombia

### ID 614 The Effect Of Financial Literation On Investing In Indonesia Capital Market (Study on College Students in Bandung City, Indonesia)

Budi Rustandi Kartawinata, Kukuh Panuntun Wicaksono, Aldi Akbar, Faculty of Communication and Business, Telkom University, Jalan Terusan Buah Batu, Bandung 40257, Indonesia

#### ID 615 Employee Performance Improvement As An Impact of Applying Organizational Culture

Ida Nurnida, Mahendra Fakhri, Anita Silvianita, Nurjuanda, School of Communication and Business Telkom University, Indonesia

#### ID 616 What Kind of Improvement to Increase Job Satisfaction among The Employees?

Romat Saragih, Anita Silvianita, Mahendra Fakhri, Aldi Akbar, Fauzya Binaprayogi, School of Communication and Business Telkom University, Indonesia

#### ID 617 The Effect of Organizational Culture toward Employee Performance at Convenience Store in Bandung

M. Yahya Arwiyah, Mahendra Fakhri, Aldi Akbar, Edo Meitanama, School of Communication and Business Telkom University, Indonesia

#### ID 618 The Influence of Work Ethic on Employee's Performance of Small-Medium Enterprises Restaurant

Tri Indra Wijaksana, Mahendra Fakhri, Riska Hernayanti Pajar, School of Communication and Business Telkom University, Indonesia

#### ID 626 BALI AND REGIONAL GOVERNMENT SUPPORT, TRANSPORTATION TAKING OFF

Muhammad Ikhsan Setiawan and Ronny Durrotun Nasihien, Department of Civil Engineering, Narotama University, Surabaya, Indonesia

Mohd Adib Mohd Razi, Faculty of Civil Engineering and Building Environment, Civil Engineering Department, Universiti Tun Hussein Onn Malaysia, Parit Raja, Malaysia

Wahyu Mulyo Utomo, Faculty of Electrical and Electronic Engineering, Electrical Engineering Department, Universiti Tun Hussein Onn Malaysia, Parit Raja, Malaysia

Agus Sukoco, Tubagus Purworusmiardi and Achmad Muchayan, Department of Management, Narotama University, Surabaya, Indonesia

Muhammad Isradi, Department of Civil Engineering, Universitas Mercu Buana, Jakarta, Indonesia

#### ID 627 BALI GOVERNMENT SUPPORT TO BLOWED UP TOURISM

I Nyoman Sudapet, Agus Sukoco, Elok Damayanti, Ani Wulandari and Amrun Rosyid, Department of Management, Narotama University, Surabaya, Indonesia

Ronny Durrotun Nasihien and Muhammad Ikhsan Setiawan, Department of Civil Engineering, Narotama University, Surabaya, Indonesia

Che Zalina Zulkifli, Faculty of Arts, Computers and Creative Industries, Department of Computers, Universiti Pendidikan Sultan Idris, Tanjong Malim, Malaysia

Abdul Talib Bon, Faculty of Technology And Business Management, Department Of Production And Operations Management, Universitas Tun Hussein Onn Malaysia, Parit Raja, Malaysia

#### ID 628 Antiosteoporotic activity of Pandanus odoratissimus seed extract in ovariectomized rats

Sri Endarti Rahayu, Suprihatin, Meslina Astuti Manik, Ernawati Sinaga Suprihatin, Faculty of Biology, Universitas Nasional Jakarta, Indonesia

#### ID 629 Species Richness of Sea Cucumbers in Saleh Bay Based on Catch of Fishermen

Neri Kautsari, Aquatic Resources Management, Samawa University, Sumbawa Besar, Indonesia

Ilham Syahputra, Wildlife Conservation Society, West Nusa Tenggara, Indonesia

### ID 630 Antimicrobial Activity of Endosymbiont Bacteria Isolated from Marine Sponges Collected from Kotok Kecil Island, Jakarta

Alvira Noer Effendi, Noverita, and Ernawati Sinaga, Faculty of Biology, Universitas Nasional, Jakarta, Indonesia

Tri Aryono Hadi, Research Center for Oceanography, Indonesian Institute of Sciences

#### ID 631 Performance Evaluation of Hybrid ZigBee-Fiber Optic for Wireless Sensor Network System

Raihan Zaky Thamrin, Octarina Nur Samijayani, Dwi Astharini, Suci Rahmatia, Electrical Engineering Department, University of Al Azhar Indonesia, Jakarta, Indonesia

#### ID 632 Utilization of Dates (Phoenix dactylifera L.) and Bilimbi (Averrhoa bilimbi L.) in Making Effervescent Tablet

Melanie Cornelia, Cindy Oktavia, Food Technology Study Program, Faculty of Science and Technology, Pelita Harapan University, Lippo Karawaci, Tangerang 15811, INDONESIA

#### ID 633 Quality Analysis of Carrot and Tomato Juices Formula to Increase Local Resources Added Value

Farida, Yenisbar, Faculty of Agriculture, Universitas Nasional, Jakarta;

#### ID 634 Characteristics Of Vegetable Canistel Mousse Dessert (Pouteria campechiana) Using Polysacaride Stabilizer

Etty Hesthiati, Inkorena GS Sukartono, Tri Waluyo and Nurul Hanifah, Faculty of Agriculture, Universitas Nasional, Indonesia

#### ID 635 SURVEY OF DUGONGS (Dugong dugon) ON CEMPEDAK ISLAND, WEST KALIMANTAN

Galih Hakim Antarnusa And Achmad Yanuar, Department of Biology Graduate School, Universitas Nasional, Menara UNAS II, Jl. Harsono RM, Ragunan, Jakarta Selatan 12550, Indonesia

Richard Moore, Yayasan IAR Indonesia, Jl. Curug Nangka, Kp. Sinarwangi Ciapus - Bogor, 16610

Urai Iskandar, Yayasan Webe Konservasi Ketapang , Jl. RM Sudiono no.49A, Kelurahan Kantor, Kecamatan Delta Pawan, Ketapang, Kalimantan Barat, Indonesia.

### ID 637 Model of Strengthening Technology Literacy for Junior High School Teachers in The Era of The Industrial Revolution 4.0

Soewarto Hardinata, Yudhie Suchyadi and Dian Wulandari, Education Management Study Program, Graduate School, Universitas Pakuan, Bogor, Indonesia

#### ID 638 Using a Multimedia for natural Science Learning in Improving Concept skills of Elementary School Teachers

Yudhie Suchyadi, Oding Sunardi, Eka Suhardi, Fitri Siti Sundari, Fitri Anjaswuri, and Dita Destiana, Faculty of Teacher Training and Education, Universitas Pakuan, Bogor, Indonesia

#### ID 646 Experiences of the Yapis in Extending Human Resources in Tanah Papua

Rudihartono Ismail, Universitas Amal Ilmiah Yapis Wamena, Indonesia

Helmawati Helmawati, Universitas Islam Nusantara, Indonesia

Ismail Suardi Wekke, Institut Agama Islam Negeri (IAIN) Sorong, Indonesia, The Jusuf Kalla Research Center for Bugis Makassar Cultural Studies, Universitas Muslim Indonesia

Didiharyono Didiharyono, Andi Djemma University, Palopo, Indonesia

#### ID 647 Educational Technology in Higher Education on Pandemic Covid-19 Experiences

Ismail Suardi Wekke, Institut Agama Islam Negeri (IAIN) Sorong, Indonesia, Asosiasi Dosen Insan Cita Indonesia, Indonesia, The Jusuf Kalla Research Center for Cultural Studies, Universitas Muslim Indonesia

Muhammad Ihsan, Universitas Pendidikan Muhammadiyah Sorong, Indonesia

Muhammad Rusdi Rasyid, Institut Agama Islam Negeri (IAIN) Sorong, Indonesia

Rudihartono Ismail, Universitas Amal Ilmiah Yapis Wamena, Indonesia

Muhammad Makbul, UIN Alauddin Makassar, Indonesia

### ID 648 Designing the Sustainable Collaboration among the Local Government, Community and Academics: The Sharia-Based Economic Growth

Mohd. Heikal, Muammar Khaddafi, Rico Nur Ilham, Fuadi, Faculty of Economics and Business Universitas Malikussaleh, Blang Pulo, Muara Satu, Aceh Utara, 24355 Aceh, Indonesia

Isfenti Sadalia, Department of Management, Universitas Sumatera Utara, Medan Baru, Medan, 20222 Sumatera Utara, Indonesia

Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia

### ID 649 A Study of Micro, Small and Medium Enterprises (MSMEs) during Covid-19 Pandemic: An Evidence using Economic Value-Added Method

Wahyuddin, Marzuki, Muammar Khaddafi, Rico Nur Ilham, Faculty of Economics and Business, Universitas Malikussaleh, Blang Pulo, Muara Satu, Aceh Utara, 24355 Aceh, Indonesia

Irada Sinta, Faculty of Agriculture, Universitas Malikussaleh, Releut, Aceh Utara, 24355 Aceh, Indonesia

Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia

ID 650 Underlying Mechanisms of Transit-Oriented Development: A Conceptual System Dynamics Model; the case for Qatar Aya Hasan AlKhereibi, Qatar Transportation and Traffic Safety Center, College of Engineering, Qatar University, Doha, Qatar

Nuri Onat, Qatar Transportation and Traffic Safety Center, College of Engineering, Qatar University, Doha, Qatar

Raffaello Furlan, Department of Architecture and Urban Planning College of Engineering, Qatar University, Doha, Qatar

#### ID 651 Generating Artificial Driving Patterns by Using Generative Adversarial Networks

Fannia Pacheco, Department of Mechanical and Electrical Engineering, University of Southern Denmark, SDU, Sonderborg, 6400, Denmark

Mariela Cerrada, Research and Development Group on Industrial Technologies (GIDTEC), Universidad Politécnica Salesiana, Cuenca, Ecuador

José Ignacio Huertas, Energy and Climate Change Research Group, School of Engineering and Science, Tecnológico de Monterrey, Monterrey, 64849, Mexico

**ID 652** An Investigation of Open Career Promotion Policy Implementation in Indonesian National Police Institution
Albertus Recky Robertho, Hardi Warsono and Augustin Rina Herwati, Faculty of Social and Political Sciences, Universitas Diponegoro, Tembalang, Semarang, Jawa Tengah 50275, Indonesia

Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia, erengganu 21030 Kuala Nerus, Terengganu, Malaysia

# ID 653 Implementation of the e-Kinerja System at the Department of Public Works and Spatial Planning, Cirebon Regency, Indonesia

Aos, Hardi Warsono and Augustin Rina Herwati, Faculty of Social and Political Sciences, Universitas Diponegoro, Tembalang, Semarang, Jawa Tengah 50275, Indonesia

Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia

#### ID 654 A Study Collaborative Governance in Bengkulu City, Indonesia

Deni Triyanto, Hardi Warsono and Augustin Rina Herwati, Faculty of Social and Political Sciences, Universitas Diponegoro, Tembalang, Semarang, Jawa Tengah 50275, Indonesia

Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia erengganu 21030 Kuala Nerus, Terengganu, Malaysia

# ID 655 A Study of Imposition of Restrictions on Community Activities In Indonesia: Public Sentiment Analysis on Twitter Media

Diryo Suparto, Hardi Warsono and Augustin Rina Herwati, Faculty of Social and Political Sciences, Universitas Diponegoro, Tembalang, Semarang, Jawa Tengah 50275, Indonesia

Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu 21030 Kuala Nerus, Terengganu, Malaysia

#### ID 656 Exploring the Community Involvement in Smart City through a Co-creation Approach in Indonesia

Imam Yudhi Prastya, Hardi Warsono and Augustin Rina Herwati, Faculty of Social and Political Sciences, Universitas Diponegoro, Tembalang, Semarang, Jawa Tengah 50275, Indonesia

Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia

Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor Malaysia

### ID 657 The Implementation of Clean Water Resources Development Policy: A Case Study of Atambua, Belu Regency, Indonesia

Marialaeta Lidvina Phou Iki Bere Mau, Hardi Warsono and Augustin Rina Herwati, Faculty of Social and Political Sciences, Universitas Diponegoro, Tembalang, Semarang, Jawa Tengah 50275, Indonesia

Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia

#### ID 658 Handling the Children Sexual Violence: Women's Leadership Perspective

Natta Sanjaya, Hardi Warsono and Augustin Rina Herwati, Faculty of Social and Political Sciences, Universitas Diponegoro, Tembalang, Semarang, Jawa Tengah 50275, Indonesia

Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia

#### ID 659 The Impact of COVID-19 Pandemic on Sustainable Development in Southeast Asia

Noorvita Ika Mardianti, Hardi Warsono and Augustin Rina Herwati, Faculty of Social and Political Sciences, Universitas Diponegoro, Tembalang, Semarang, Jawa Tengah 50275, Indonesia

Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia

#### ID 660 Local Government Public Service Quality Innovation in Bengkulu City: A Case Study of SAMSAT VIRTU Application

Novliza Eka Patrisia, Hardi Warsono and Augustin Rina Herwati, Faculty of Social and Political Sciences, Universitas Diponegoro, Tembalang, Semarang, Jawa Tengah 50275, Indonesia

Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia

#### ID 661 The Implementation of the Independent Learning Campus Policy: Private Universities Dilemma

Rahmawati, Hardi Warsono and Augustin Rina Herwati, Faculty of Social and Political Sciences, Universitas Diponegoro, Tembalang, Semarang, Jawa Tengah 50275, Indonesia

Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia

#### ID 662 Collaborative Governance on Slum Upgrading in Cultural Heritage Area: A Case Study of Pulau Penyengat, Indonesia

Surjadi, Hardi Warsono and Augustin Rina Herwati, Faculty of Social and Political Sciences, Universitas Diponegoro, Tembalang, Semarang, Jawa Tengah 50275, Indonesia

Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia

Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor Malaysia

#### ID 663 A Study of Collaborative Governance and Its Effect on Tourism Sector during the COVID-19 Pandemic in Indonesia

Vonny Farizky, Hardi Warsono and Augustin Rina Herwati, Faculty of Social and Political Sciences, Universitas Diponegoro, Tembalang, Semarang, Jawa Tengah 50275, Indonesia

Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia

### ID 664 The Impact of Covid-19 on Micro, Small, and Medium Enterprises in Central Java, Indonesia: The Need for Economic Recovery

Wiwin Widiastuti, Hardi Warsono and Augustin Rina Herwati, Faculty of Social and Political Sciences, Universitas Diponegoro, Tembalang, Semarang, Jawa Tengah 50275, Indonesia

Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia

Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor Malaysia

#### ID 665 A Study of Anticipating Post Pandemic "Tsunami" of Psychiatric Illness: A Public Psychiatry Approach

Candra Ramadhanny, Hardi Warsono and Augustin Rina Herwati, Faculty of Social and Political Sciences, Universitas Diponegoro, Tembalang, Semarang, Jawa Tengah 50275, Indonesia

Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia

#### ID 666 Review: Floating Homes Transportation Opportunities in Indonesia

Arie Indartono, hipbuilding Institute of Polytechnic Surabaya (PPNS), Department of Marine Electrical Engineering Technology, Surabaya, Jawa Timur, 60111, Indonesia

Mohammad Basuki Rahmat, Shipbuilding Institute of Polytechnic Surabaya (PPNS),

Department of Shipbuilding Engineering Technology, Department of Marine Electrical Engineering Technology, Surabaya, Jawa Timur, 60111, Indonesia

Sri Wiwoho Mudjanarko, Rizal Bahaswan, Civil Engineering Faculty, Narotama University Surabaya, Jawa Timur, 60117, Indonesia

Joewono Prasetijo, Department of Transportation Engineering Technology, Universiti Tun Hussein Onn Malaysia, 84600 Pagoh, Johor, Malaysia

Mohd Idrus Mohd Masirin6 Department of Civil Engineering, Universiti Tun Hussein Onn Malaysia, Malaysia

#### ID 668 Consumer entrepreneurship on online media: Issues and Potential Approaches for Business Models

Ted Minshall, The Institute for Manufacturing, University of Cambridge, Cambridge, United Kingdom

#### ID 669 Improving Concrete Quality on Structural using Lightweight Aggregates (LWA): A Comprehensive Review

L. Oksri Nelfia, Lecturer, Civil Engineering Department, Universitas Trisakti, Jakarta, Indonesia

Candra Supriyatna, Student, Civil Engineering Department, Universitas Trisakti, Jakarta, Indonesia

Agung Sumarno, Researcher, Research Center for Biomaterials - Indonesian Institute of Sciences

## ID 670 Biodiversity in Urban Area: Potential Biodiversity of Tanjung Priok, North Jakarta and the Impact of Conservation Programs

Nonon Saribanon, Fauziah Ilmi, and Annisa Haryanti Nurhasanah, Universitas Nasional, Pasar Minggu, South Jakarta, Indonesia

Dede Niman and Eka Octaviyatna Mulyadi, PT Indonesia Power Priok POMU, Indonesia

#### ID 671 SEMI-MODERN MARKET COMPETITIVENESS STRATEGY IN THE ERA OF DIGITAL DISRUPTION

Fredi Andria, Sri Hartini, and Sri Nursanti, Department of Management, Faculty of Economics and Business, Pakuan University,

### ID 672 Formulating an Investment Strategy in the Indonesian Capital Market: Jakarta Automated Transaction System Next Generation

Rico Nur Ilham, Arliansyah, Reza Juanda, Muammar Khaddafi, Khairil Anwar, Faculty of Economics and Business, Universitas Malikussaleh, Blang Pulo, Muara Satu, Aceh Utara, 24355 Aceh, Indonesia

Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia

## ID 673 Analyzing the Relationship of Work Environment and Quality of Work Life on Employee Performance: The Mediating Role of Organizational Commitment

Subianto Karoso, Faculty of Language and Art, Universitas Negeri Surabaya, Lidah Wetan, Lakarsantri, Surabaya, Jawa Timur 60213, Indonesia

Riinawati, Faculty of Tarbiyah and Education, Universitas Islam Negeri Antasari Banjarmasin, Banjarmasin Timur, Banjarmasin, Kalimantan Selatan 70235, Indonesia

Rico Nur Ilham, Rany Gesta Putri Rais, Faculty of Economics and Business, Universitas Malikussaleh Blang Pulo, Muara Satu, Aceh Utara, 24355 Aceh, Indonesia

Dara Latifa, Politeknik Pertanian Negeri Payakumbuh, Koto Tuo, Harau, Lima Puluh Kota, Sumatera Barat 26271, Indonesia

Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia, Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia

# ID 674 The Factors that Influence Job Transfer and Its Impact on Organizational Performance: Mini-Review Approach Istyadi Insani, Hardi Warsono and Augustin Rina Herwati, Faculty of Social and Political Sciences, Universitas Diponegoro, Tembalang, Semarang, Jawa Tengah 50275, Indonesia

Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia

Abdul Talib Bon, Department of Production and Operations, Universiti Tun Hussein Onn Malaysia, 86400 Parit Raja, Johor Malaysia

## ID 675 The Implementation of Poverty Alleviation Policy during the COVID-19 Pandemic: A Case Study of Pekalongan Regency, Indonesia

Mohammad Yulia Akbar, Hardi Warsono and Augustin Rina Herwati, Faculty of Social and Political Sciences, Universitas Diponegoro, Tembalang, Semarang, Jawa Tengah 50275, Indonesia

Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia

### ID 676 Identifying the Ethics of Preparing Financial Statements among Islamic Boarding School Students in Central Java, Indonesia

Muhammad Wildan Sholih, Annisa Qurrota A'yun, Imam Prayogo, Department of Accounting, Faculty of Vocational School PSDKU Pekalongan, Universitas Diponegoro, Indonesia

Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia

Teuku Afrizal, Department of Public Administration, Faculty of Social Science and Political Science, Universitas Diponegoro, Tembalang, Semarang, Jawa Tengah 50275, Indonesia

#### ID 677 Implementation of the Role-Playing in Developing the Speaking Skills for Early Childhood

Kartika Fajriani, Universitas Nahdlatul Ulama, Samarinda City, East Kalimantan 75251, Indonesia

Esti Royani, Universitas 17 Agustus 1945, Samarinda City, Kalimantan Timur 75123, Indonesia

Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia

Teuku Afrizal, Department of Public Administration, Faculty of Social Science and Political Science, Universitas Diponegoro, Tembalang, Semarang, Jawa Tengah 50275, Indonesia

#### ID 689 A BLUETOOTH TECHNOLOGY CONTROLLED WHEELCHAIR

Akande Saheed, Ter Kumater Peter and Mgbeze Emmanuel, Department of Mechanical and Mechatronics Engineering, Afe Babalola University, Ado-Ekiti, Nigeria

#### ID 690 A Study of Implementation of Special Autonomy Law: An Evidence from Post Peace Conflict of Aceh, Indonesia

Fadhil Ilhamsyah, Hardi Warsono and Augustin Rina Herwati, Faculty of Social and Political Sciences, Universitas Diponegoro, Tembalang, Semarang, Jawa Tengah 50275, Indonesia

Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia

#### ID 691 A Study of Special Autonomy Fund Management of Papua Province, Indonesia: A Good Governance Perspective

Luth, Hardi Warsono and Augustin Rina Herwati, Faculty of Social and Political Sciences, Universitas Diponegoro, Tembalang, Semarang, Jawa Tengah 50275, Indonesia

Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia

#### ID 692 Literary and Historical Notes of Pennsylvania Colony: A Model of Multicultural Society

Nuriadi and Eka Fitriana, Faculty of Education, Universitas Mataram, Indonesia

Rico Nur Ilham, Faculty of Economics and Business, Universitas Malikussaleh, Blang Pulo, Muara Satu, Aceh Utara, 24355 Aceh, Indonesia

Jumadil Saputra, Faculty of Business, Economics and Social Development , Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia

#### ID 693 Big Data and Artificial Intelligence in Policy Making: A Mini-Review Approach

Eko Eddya Supriyanto, Hardi Warsono and Augustin Rina Herwati, Faculty of Social and Political Sciences Universitas Diponegoro, Tembalang, Semarang, Jawa Tengah 50275, Indonesia

Jumadil Saputra, Faculty of Business, Economics and Social Development, Universiti Malaysia Terengganu, 21030 Kuala Nerus, Terengganu, Malaysia

#### ID 695 SUSTAINABLE CIRCULAR SUPPLIER SELECTION CRITERIA: AN EMPIRICAL STUDY

Maha Morssi, Department of Design, Manufacturing and Engineering Management, University of Strathclyde, Glasgow, United Kingdom,

College of International Transport & Logistics, Arab Academy for Science, Technology & Maritime Transport, Alexandria, Egypt

#### ID 696 Risk Modeling Analysis of A Building Project and Its Impacts on Urban Labor Accidents in Surabaya

Mokhamad Handy Budiarto, Muhammad Ikhsan Setiawan, Adi Prawito, Ronny Durrotun Nasihien and Sri Wiwoho Mudjanarko, Department of Civil Engineering, Narotama University, Indonesia

Mohd Irwan Juki, Faculty of Civil Engineering And Building Environment, UTHM, Parit Raja, Malaysia

#### ID 697 Analysis of The Management Services Modeling of Flats in Surabaya and its Impact on The Comfort of Residents

Dimas Ade Pranata, Muhammad Ikhsan Setiawan, Adi Prawito, Ronny Durrotun Nasihien and Sri Wiwoho Mudjanarko, Department of Civil Engineering, Narotama University, Indonesia

Mohd Irwan Juki, Faculty of Civil Engineering and Building Environment, UTHM, Parit Raja, Malaysia

ID 698 Analysis of The Modeling Delay Factor for The Implementation of Flats in Surabaya and Its Impact on The Housing Needs of Urban Communities

Wahyu Ariyanto Aji Pamungkas, Muhammad Ikhsan Setiawan, Adi Prawito, Ronny Durrotun Nasihien and Sri Wiwoho Mudjanarko, Department of Civil Engineering, Narotama University, Indonesia

Mohd Idrus Bin Mohd Masirin, Faculty of Civil Engineering And Building Environment, Uthm, Parit Raja, Malaysia

### ID 699 Compensation, Supervision, or Work Environment, which has the greatest influence on Work Motivation and Performance?"

Eko Bagus Harja Kusuma, Agus Dwi Sasono, Agus Sukoco, Amrun Rosyid, Master of Management Department, Narotama University, Indonesia, Jalan Arif Rahman Hakim No.51, Surabaya, Indonesia

#### ID 700 Performance Assessment Analysis of XYZ Private Universities Using Balanced Scorecard Method

Hendarto, Hermien Tridayanti, Agus Sukoco, Amrun Rosyid, Master of Management Department, Narotama University, Indonesia, Jalan Arif Rahman Hakim No.51, Surabaya, Indonesia

#### ID 701 BUILDING INFORMATION MODELING (BIM) IMPLEMENTATION MODEL FOR FACILITY MANAGEMENT

Ary Sunantiyo, M. Ikhsan Setiawan, Master of Civil Engineering Study Program, Narotama University Surabaya, Jalan Arief Rahman Hakim 51, Sukolilo, Surabaya

#### ID 703 Optimizing of the Processing of Sulphide Ores Using Neural Network Technologies

Gulnara Abitova and Elvira Aitmukhanbetova, Department of Intelligent Systems & Cyber Security, and Department of Computer Engineering, Astana IT University, Nur-Sultan, Kazakhstan

Leila Rzayeva, Korlan Kulniyazova, and Ali Myrzatay, Department of System Analysis and Control, E.N. Gumilyov University, Nur-Sultan, Kazakhstan

### ID 704 ANALYSIS OF QUALITY OF SERVICE, PRICE AND PRODUCT QUALITY TO PURCHASE DECISIONS IN PT. JAPFA SIDOARJO Muslikhun, STIE MAHARDHIKA

# ID 705 ANALYSIS OF EFFECT OF LEADERSHIP STYLE ANDENVIRONMENT WORKUSING THE PERFORMANCE OF EMPLOYEES WORK MOTIVATION as an intervening variable (Case Study at PT. Suparma TBK)

Nuning Nurna Dewi, Economic Lecture of the University MaarifLatif Hashim

#### ID 706 COMMUNITY SERVICES PROGRAM, SMALL MEDIUM ENTERPRISES AND ENTREPRENEURSHIP IN INDONESIA

Achmad Fathoni Rodli, Universitas Maarif Hasyim Latief, Sidoarjo, Indonesia

#### ID 707 Anomaly Detection on the High Throughput Network of the ATLAS TDAQ System

Mitchell Phiri, Simon H. Connell, Pathmanathan Naidoo, Department of Mechanical Engineering Science University of Johannesburg, Johannesburg – 2006, South Africa

Mikel E. Pozo Astigarraga, ATLAS Trigger and Data Acquisition, European Organisation for Nuclear Research, Meyrin - 1217, Switzerland

Dave Nicholls, NESCA Board, South African Nuclear Energy Corporation, North West Province - 0240, South Africa

#### ID 708 Model for measure supply risk in supply chains: a SARS-CoV-2 crisis case study

Markus Mauksch, Sensirion Holding AG, Switzerland

Pedro Espadinha-Cruz and Helena Carvalho, UNIDEMI, Departamento de Engenharia Mecânica e Industrial, NOVA School of Science and Technology, Universidade NOVA de Lisboa, 2829-516, Caparica, Portugal

### ID 709 HUMAN RESOURCES DEVELOPMENT STRATEGY FOR SMALL AND MEDIUM ENTERPRISES (SMEs) IN THE FIELD OF INFORMATION TECHNOLOGY AMID THE COVID-19 PANDEMIC

Khikmatul Islah, Faculty of Administration Science, Institut Ilmu Sosial dan Manajemen STIAMI, Jakarta, Indonesia

Ratih Kumala, Faculty of Administration Science, Institut Ilmu Sosial, dan Manajemen STIAMI, Jakarta, Indonesia

Cundo Harimurti, Faculty of Administration Science, Institut Ilmu Sosial dan Manajemen STIAMI, Jakarta, Indonesia

Agus Subagiyo, Faculty of Administration Science, Institut Ilmu Sosial dan Manajemen STIAMI, Jakarta, Indonesia

Dwikora Harjo, Faculty of Administration Science, Institut Ilmu Sosial dan Manajemen STIAMI, Jakarta, Indonesia

#### ID 710 VALUE CHAIN COLLABORATION, MSMEs STRATEGY IN THE COVID PERIOD

Dini Verdania Latif, Istanbul Gelisim University, Turkey

Diana Veranita Latif, Founder of Oralie

### ID 711 TAX HOLIDAY INCENTIVE STRATEGY DURING THE COVID-19 PANDEMIC PERIOD TO INCREASE INVESTMENT IN INDONESIA

Novianita Rulandari, Chairil Anwar Pohan, Alian Natision, Mohammad Sofyan, Putri Ayu Lestari Institut Ilmu Sosial dan Manajemen STIAMI

#### ID 712 Factors of Successful Adoption of E-Filing during The Covid-19 Pandemic

Agus Arianto Toly, Alicia Wijaya, Priscilia Geovany Lewa, Sonia Frensiana Tjung, Tax Accounting Program, Universitas Kristen Petra, Surabaya.

# ID 713 Analysis of safety construction modeling of the implementation of flats in Surabaya and its impact on the security and safety of urban workers

Setyo Aji Handoyo and Muhammad Ikhsan Setiawan, Department of Civil Engineering, Narotama University, Indonesia

#### ID 715 Higher Order Thinking Skill (HOTS) and Bloom Taxonomy Revised

Adirasa Hadi Prasetyo and Yetti Hidayatillah, Guidance and Counseling, Civic Education, STKIP PGRI Sumenep, Sumenep, Indonesia

Supian, History Departement, Jambi University, Jambi, Indonesia

Muhammad Fauzy Emqi, Tribhuwana Tungga Dewi University, Malang, Indonesia

Ihsan Nasihin, Buana Perjuangan University, Karawang, Indonesia

#### ID 716 Determinants of Environmental Quality in ASEAN Countries

Indanazulfa Qurrota A'yun, Faculty of Economics and Business, Universitas Ahmad Dahlan, Indonesia

#### ID 717 Investment Decision with Analytical Network Process Method

Niken Savitri Primasari, Accounting Department of Economic Business and Technology Digital Faculty Nahdlatul Ulama, Surabaya University Raya Jemursari 57, Wonocolo 50237, Indonesia

Ima Kurniastuti, Information Systems Department of Economic Business and Technology Digital Faculty, Nahdlatul Ulama Surabaya University Raya Jemursari 57, Wonocolo 50237, Indonesia

#### ID 718 Analysis of Trigger Accounting Fraud: Individual and Organizational Culture Aspects

Putu Firda Febriyanti Suartha and Desak Nyoman Sri Werastuti, Master of Accounting, Ganesha University of Education

#### ID 719 Enhancing MSME Performance through Digital Marketing and Innovation with Government Policy as Moderating Effect

Nanik Istianingsih, Sarjon Defit and Zefriyenni, Lecture of Management Doctoral Program, UPI YPTK Padang, Indonesia

#### ID 720 Partnership-Based Training and Assistance Model for Small and Medium Enterprises

Riza Bahtiar Sulistyan, Mimin Yatminiwati, Emmy Ermawati and Moh Hudi, Setyobakti, Institut Teknologi dan Bisnis Widya Gama Lumajang, Indonesia

#### ID 721 Patient Satisfaction of Dental and Oral Health Service Facility based on Digital Patient Experience Driven Innovation

Pri Agung Danarahmanto, Academy of Medical Records and Health Informatics Bandung (APIKES Bandung) Bandung, West Java 40122, Indonesia

Julia Famor Pratami, Academy of Medical Records and Health Informatics Bandung (APIKES Bandung) Bandung, West Java 40122, Indonesia

M. Dana Prihadi, Academy of Medical Records and Health Informatics Bandung (APIKES Bandung) Bandung, West Java 40122, Indonesia

#### ID 722 Valuation of Adaro Energy Ltd (ADRO.JK) Stock Price as Blue-Chip Stock in 2021

Trimono, I Gede Susrama Mas Diyasa, Mohammad Idhom, Sugarto, Data Science Study Program, Pembangunan Nasional "Veteran" University, Surabaya, 60294, Indonesia

# ID 723 RECOMMENDATIONS FOR TOURISM RECOVERY POLICY POST OUTCOME CORONA VIRUS DISEASE 2019 (COVID-19) IN BALI BASED ON THE SMART BALI BACKPACKER APPLICATION

Akhmad Fauzi, Eristya Maya Safitri, Kartika Maulida Hindrayani, Ilmatus Sa'diyah, Farkhan, Muhammad Luthfirrohman, Mohammad Naufal Pratama, I Gede Susrama Mas Diyasa, University of Pembangunan Nasional "Veteran" Jawa Timur, Surabaya, Indonesia

### ID 724 Visualizing Tweets Text Analysis of Indonesian Religion Figures on Moderate and Radicalism using Sentiment Analysis and Word Clouds

Tresna Maulana Fahrudin, Amri Muhaimin, Prismahardi Aji Riyantoko, Kartika Maulida Hindrayani, Department of Data Science, Faculty of Computer Science, Universitas Pembangunan Nasional "Veteran" Jawa Timur Surabaya, Indonesia

#### ID 725 DIGITAL MARKETING WEB DESIGN BASED ON THE SHOPIFY APPLICATION AT "PT. RUMAH DELTASARI INDAH"

I Gede Susrama Mas Diyasa, Universitas Pembangunan Nasional "Veteran" Jawa Timur, Surabaya, Indonesi

Ratna Yulistiani, Department of Food Technology, Faculty of Engineering University of Pembangunan Nasional "Veteran" Jawa Timur Surabaya, Indonesia

#### ID 726 UTILIZATION OF MAGGOT BLACK SOLDIER FLY (BSF) CULTIVATION FOR FISH FEED

Deffi Ayu Puspito Sari, Richa Andreina , Prismita Nursetyowati, Diki Surya Irawan, Environmental Engineering Bakrie University, 12940, Indonesia

Darmono Taniwiryono, Homebase Innovation Center

#### ID 727 Change Management: A Strategy for Developing BUMDES

Sayekti Suindyah Dwiningwarni, Chamariyah, Sujani, Ja'far Shodiq, Juniyanti DP, and Ardianti Agustin, University of Wijaya Putra, Surabaya, Indonesia

Syamsiyah Yuli D, University of Muhammadiyah Yogyakarta, Indonesia

### ID 728 AN ASSESMENT DETERMINATION ON THE SME'S INTERNATIONAL PERFORMANCE AS A COMPETITIVE ADVANTAGE IN INDONESIA

Seprianti Eka Putri, Universitas Bengkulu, Indonesia

#### ID 729 E-Learning Platform to Assess Students' Performance in Industrial Revolution 4.0

Ana Christanti, Muawwinatul Laili, Evi Mahsunah and Masyitah Noviyanti, English Language Education Department, Universitas Nahdlatul Ulama Sidoarjo, Sidoarjo 61218, Indonesia

#### ID 730 HOW IMPORTANT IS BUSINESS ETHICS IN CORPORATE STRATEGY

Chairul Iksan Burhanuddin, Aulia, Alamsjah, Firmansyah, University of Muhammadiyah Makassar

#### ID 731 A Design of Enterprise System View on a Restaurant Waiting Time

Fadi Aljuhani, Hashim AlDabbagh, Jameel Mujlid, Anas Alzahrani, and Sameer Maimani, Industrial Engineering Department King Abdualziz University, Jeddah, Makkah, KSA

# ID 732 UNIVERSITY ANALYSIS ON DIGITAL CONSTRUCTION PROGRAM: IMPLEMENTATION & IMPACT OF MBKM INTERNSHIP IN CONSTRUCTION & INFRASTRUCTURE INDUSTRY AT NAROTAMA UNIVERSITY

Julistyana Tistogondo, Farida Hardaningrum, Muhammad Ikhsan Setiawan, Sri Wiwoho Mudjanarko, Diah Ayu Restuti Wulandari, Ronny Durrotun Nasihien, Hendro Sutowijoyo, Adi Prawito, Department of Civil Engineering, Narotama University, Surabaya, Indonesia

Achmad Muchayan, Department of System Information, Narotama University, Surabaya, Indonesia

Tubagus Purworusmiardi, Department of Management, Narotama University, Surabaya, Indonesia

#### ID 733 Technology Service Delivery in Urban Transportation Business Strategy in Indonesia

John Tampil Purba, Department of Management Faculty of Economics and Business, Universitas Pelita Harapan, Tangerang-15811, Indonesia

Sidik Budiono, Department of Management Faculty of Economics and Business, Universitas Pelita Harapan, Tangerang-15811, Indonesia

Wilson Rajagukguk, Department of Management Faculty of Economics and Business, Universitas Kristen Indonesia, Jakarta, Indonesia

### ID 756 Effect of Investment Opportunity Set, Firm Size, Institutional Ownership And Dividend Policy on The Firm Value In Automotive and Components Companies Listed on The Indonesia Stock (2015–2019 Period)

Agung Fajar Ilmiyono, Hari Gursida, Ellyn Octavianty, and Ani Mulyani, Department of Accounting, Faculty of Economics and Business, Universitas Pakuan, Bogor, Indonesia

# ID 757 Cooperative And Msme Empowerment Strategies in Economic Recovery During The Covid-19 Pandemic in Bogor Regency Indonesia

Dinalara D Butarbutar and Mustika Mega Wijaya Department of Law, Faculty of Law Pakuan University Bogor, Indonesia

#### ID 758 Optimization Regional Original Income (PAD) of Economic Growth Bogor City 2015-2020 (During Covid-19)

Retno Martanti Endah Lestari, Ernadhi Sudarmanto, Antania Hanjanilia Ristiyana, Accounting Departement, Economics and Bussiness Faculty, Pakuan University Bogor, West Java, Indonesia

#### ID 759 Soft Skills Improvement Of Youth Organization: Entering The Work Environment

Salmah, Fredi Andria, and Amelia Rahmi, Faculty of Economics and Business Pakuan University Bogor, Indonesia

### ID 760 Implementation of Criminal Sanctions in Law Number 6 of 2018 Concerning Health Quarantine for Large-Scale Social Restriction Breakers in The Jabodetabek Area

Sapto Handoyo DP and Nazaruddin Lathif, Departement of Law, Faculty of Law Pakuan University, Bogor Indonesia

#### ID 762 The Impact of Narcotics Use and Selling in Criminological Studies: Learn from Indonesia

Esti Royani, Faculty of Law, 17 August 1945 University, Samarinda, Indonesia

#### ID 763 Study of Implementation Planning of Electronic Road Pricing System on Jakarta

Andri Irfan Rifai, Faculty of Civil Engineering and Planing, University of Internasional Batam, Indonesia Yasmin Ramadian, Muhammad Isradi, Amar Mufhidin Faculty of Civil Engineering and Planing University of Mercubuana Jakarta, Indonesia

#### ID 764 Analysis of Pedestrian Services in Metropolitan Cities: Case of Jakarta Business Area

Andri Irfan Rifai, Faculty of Civil Engineering & Planning, University of Internasional Batam, Indonesia Adinda Fajarika Akhir, Muhammad Isradi, Amar Mufhidin Faculty of Civil Engineering & Planning, University of Mercu Buana Jakarta, Indonesia

#### ID 765 Analysis of Pavement Thickness Planning and Overlaying Method on Trans Sumatera Toll Road, Pekanbaru - Dumai

Muhammad Isradi, Joewono Prasetijo, Nurani Hartatik, Faculty of Engineering and Technology, University Tun Hussein Onn Malaysia, Malaysia

Indah Suryaningtyas, Widodo Budi Dermawan, Faculty of Engineering, University Mercu Buana Jakarta, Indonesia Andri Irfan Rifai, Faculty of Civil Engineering and Planning, University of International Batam, Indonesia

# ID 847 The Influence of Technology-based PBL Learning Model, Learning Method, Learning Motivation on Entrepreneurship Attitudes in Economics Education Department students of STKIP PGRI Jombang

Munawaroh, Nanik Sri Setyani, and Lina Sulistyowati, Economic Education Department STKIP PGRI Jombang Pattimura street III/20, Jombang-East Java, Indonesia

## ID 848 Language Mastering Reflected In The Speaking Skill Of Mentally Retarded Students at SLBN 1 Jombang East Java, Indonesia

Heny Sulistyowati, Department of Indonesian Language Education, STKIP PGRI Jombang, Indonesia Muh Fajar, Department of English Language Education, STKIP PGRI Jombang, Indonesia

#### ID 849 Profile of Student's Mathematical Representation based on Teacher's Accepted-Promoted-action

Tria Rahayu, Jauhara Dian Nurul Iffah, and Wiwin Sri Hidayati, Matematics Education Master Program, STKIP PGRI Jombang Jl. Pattimura III, Jombang 61471, Indonesia

#### ID 855 The Effect Of Disruptive Era And New Product On Innovative Product Launches

Yusuf Amrozi, Dwiky Arfiansyah Nugroho, Rike Excella Putri, Universitas Islam Negeri Sunan Ampel Surabaya, Surabaya, Indonesia

Joko Suyono, Narotama University, Surabaya, Indonesia

### ID 856 The Mediating Role of Work Environment in Relationship Between Leadership and Job Promotion on Employee Performance

Yohanes Sugiyanta, Joko Suyono, Narotama University, Surabaya, Indonesia Damarsari Ratnasahara Elisabeth, Sekolah Tinggi Ilmu Ekonomi Mahardhika, Surabaya, Indonesia Zulifah Chikmawati, Universitas Nadlatul Ulama Sidoarjo, Indonesia Che Zalina Zulkifli, Universiti Pendidikan Sultan Idris, Malaysia

Need to add abstracts and papers from speakers (keynote, plenary, panels, etc.)

# Work Loyalty and Employee Performance: The Mediating Role of Organizational Commitment

#### Nasyik Ifadah, Arasy Alimudin, Tri Utoyo, Joko Suyono

Narotama University, Surabaya, Indonesia

<u>Nsyk\_ifada@yahoo.com; arasy.alimudin@narotama.ac.id; utoyo74@gmail.com; joko.suyono@narotama.ac.id</u>

#### **Subas**

Sekolah Tinggi Agama Islam Al Fithrah, Surabaya, Indonesia subassisno@gmail.com

#### **Abstract**

Work loyalty and organizational commitment have a very important meaning for every company in improving employee performance. State-owned companies engaged in clean water services are very concerned about employee performance to improve services to the community. This research was conducted at a government-owned clean water company in Surabaya, East Java, Indonesia with the aim of analyzing the effect of work loyalty on employee performance, employee loyalty on organizational commitment, organizational commitment on employee performance and employee loyalty to employee performance through organizational commitment. This study uses 63 employees of clean water companies as the population. The sampling technique used was total sampling technique. Data analysis used Structural Equation Modeling (SEM) Partial Least Square (PLS). The results showed that work loyalty has an effect on employee performance, employee loyalty has an effect on organizational commitment, organizational commitment has an effect on employee performance, and organizational commitment is able to mediate the effect of employee loyalty on employee performance.

#### **Keywords**

Work loyalty, Structural Equation Modeling, organizational commitment, Partial Least Square employee performance.

#### 1. Introduction

Many experts say that human resources are the most valuable asset for a company and therefore they should be managed efficiently to ensure increased productivity. The existence of human resources in a company plays a very important role. Human resources have great potential to carry out business activities. For this reason, the company must optimize the potential of each employee to get optimal productivity. The success of a company is strongly influenced by the performance of its employees.

Mangkunegara (2016) explained that performance is the result of work (output) either quality or amount achieved by an employee in carrying out tasks based on the responsibilities assigned by the company to the employee or employee. Good performance is maximum performance, meaning that performance is based on the standards set by the company and is able to support the organization in achieving the mission and goals of the organization. Increased employee performance has an impact on the development of the organization so that it can exist and continue in a very fierce competition. Employee performance itself will be influenced by various factors related to HR or related to the organizational environment. Each organization certainly has a guideline and order that must be obeyed by all workers, among others, namely the presence of employees, all employees are required to come according to the working hours that have been set by each organization. Employee performance is work performance in terms of quality and amount that can be achieved by a worker in carrying out his duties based on the responsibilities that the company has handed over to the worker (Widia and Rusdianti, 2018). Employee performance can be seen from the quantity of work achieved by workers, the level of efficiency and effectiveness of workers in carrying out their duties, and on time in completing tasks that have been set by the company (Mangkunegara, 2016). Meanwhile, according to Robbins (2015) employee performance is a function of the

relationship between competence or ability and motivation. Robbins (2015) also explains that the determination of performance goals is to prepare useful goals not only for carrying out a performance evaluation at the end of the period. Robbins (2015) explains that employee performance is a function of the relationship between competence and motivation. Determination of performance goals is useful for setting targets to be targeted and not only for evaluating performance at the end of the period but for managing work processes during that period.

From several empirical studies, it can be seen that employee performance is influenced by several factors, including work loyalty (Tamba et al., 2018; Pradana and Nugraheni, 2015; Saputra et al., 2016) and organizational commitment (Elisabeth et al., 2021; Amri et al., 2021; Ratnasari et al., 2020). Hasibuan (2016) explains that loyalty is reflected by employee actions to maintain and defend the organization inside and outside of work from undermining irresponsible parties. Loyalty is identical to the psychological condition that unites employees with the company. Thus, employee loyalty is not only physical loyalty to their existence in the company, but also includes the attention, thoughts, dedication and ideas that are fully devoted to the company. Currently, employee loyalty is not just doing job descriptions, but also includes employee loyalty in maintaining and protecting the company from disturbances that can harm the company. Rachmawati (2015) defines organizational commitment as an attitude that reflects the "loyalty" of employees and is a continuous process of how an employee expresses their concern for the success and goodness of his company. Employees with high work loyalty will always support company policies, strive to achieve company goals and will stay at the company. Meanwhile, employees who do not have work loyalty will have turnover intention and this turnover intention is more dangerous than the real turnover because employees who have turnover intention are still working at the company but their minds are not focused on work, causing low productivity (Suyono et al, 2020).

Commitment includes work involvement. This is because there is a close relationship between work involvement and organizational commitment. Job involvement is the degree of willingness to unite himself with work, invest his time, ability and energy in work, and consider his work as a major part of his life. Commitment from employees is something important. Because of the impact, among others, on delays, absenteeism, the desire to change jobs, and labor turnover. Organizational commitment is a reflection of employee attitudes or behavior towards the company in the form of loyalty and actions to achieve the vision, mission and goals of the organization. Employees can be said to have a commitment if they have a high commitment to the company, this can be known by looking at the characteristics of trust and also strong support for the goals and values of the company, have a very strong will to work to achieve company goals and always put yourself as part of the company. Organizational commitment is something important because if employees are committed and will be willing to serve the company then they will fight hard to achieve company goals. One effort to increase employee commitment to the company is to increase employee job satisfaction. High job satisfaction will make employees more committed to the company. Satisfied employees will not work with full creativity and always support the policies and decisions taken by the company. Employees with high commitment are expected to be able to provide high performance.

This research was conducted at a government-owned clean water company in Surabaya, East Java, Indonesia. A regional company in charge of providing clean water services to the people of East Java Province, Indonesia. Because the function of this company is so important to provide clean water services to the community, the researchers are interested in conducting research on the factors that can improve employee performance in government-owned clean water companies. These factors include employee loyalty and organizational commitment. With the support of good employee performance, this company will certainly be able to improve clean water services to the community.

#### 2. Literature Review and Hypotheses

#### 2.1 Employee Performance

Employee performance is one of the success factors that influence the achievement of personal goals, which can be sourced from the output of organizational goals (Rivai, 2015). Meanwhile Hasibuan (2016) said that performance is the result of a person in completing the work or task assigned to him according to skill, knowledge, insight, attitude and time. The same thing was conveyed by Widodo (2016), that performance is the level of output or the result of a person's work from a goal that must be achieved or a job that must be completed in a certain period. Mangkunegara (2016), explains that the term "performance" comes from the term work performance or actual performance (achievement or actual work performance of a person), namely the quality and quantity of work carried out by an employee in carrying out his duties or work. Performance is a condition that must be understood and ensured by

certain parties to determine the level of performance of the relevant organization based on the vision adopted by the organization or company, and to know the positive or negative consequences of the policy.

Based on research by Mathis and Jakson (2015), the factors that influence the performance of individual employees are:

- 1. Ability of workers
- 2. Motivation.
- 3. Get support.
- 4. There is work they do.
- 5. Its relationship to the organization.

Meanwhile, Gibson (2015) explains several factors that influence performance, namely:

- 1. Competence, (ability), personality and interest in work.
- 2. Be clear and accept or explain the role of the worker, which is the level of understanding and acceptance of the tasks assigned to him.
- 3. The level of motivation of workers, namely the power to encourage, guide and maintain behavior.

Work standards are very necessary in measuring a person's performance so that everyone who works will know whether his work is in accordance with the standards set by the company or not. Traditionally, a person carries out work according to a job description that includes job responsibilities and responsibilities. However, performance standards must emphasize work results rather than tasks, so that a set of work standards describes the results that must exist and occur in the completion of a satisfactory job. The development of performance standards based on job descriptions will provide job opportunities for supervisors and employees. Therefore, the job description can be used as an overview of the overall goals that must be achieved by subordinates in supporting organizational goals. Sofyandi (2013) suggests the function of performance standards, namely: "performance standards are certain goals that must be achieved by employees, must be realistic, measurable, and obtain positions".

Performance standards compiled from job descriptions can be used to link static job definitions with dynamic performance, or they can be created for everyone based on job descriptions. Sofyandi (2013), said that performance standards can provide satisfaction if:

- 1. The statement identifies several key areas of employee responsibility
- 2. Including how to do work activities
- 3. Focus on quantitative mechanisms to measure performance results.

This performance standard is very much needed in the work environment, refers to activities that are the main part of employee responsibilities and aims to improve the quality of products or services, can operate more efficiently and can increase the number of results. In addition, performance standards may also be required for the area of problem solving, which involves the definition of the main problems encountered or anticipated. Usually, the goal is to eliminate predefined problems. It is also necessary in the area of innovation, in this area refers to new ways of working, and may be effective in evaluating new employee ideas and continuous employee growth in tennis and related fields.

Gomes (2016) said that there are several provisions used to measure worker performance, include:

- 1. Workload, namely the number of jobs obtained in a certain period of time.
- 2. Quality of work, namely the quality of work based on suitability and readiness.
- 3. Work knowledge, breadth of knowledge about work and skills.
- 4. Creativity, namely the originality of the ideas generated and actions to solve problems that arise.
- 5. Cooperation, namely the willingness to cooperate with other people (senior members of the organization).
- 6. Reliability, namely awareness and credibility in attendance and completion of tasks.
- 7. Initiative, namely the spirit of doing new tasks and expanding responsibilities.
- 8. Personal qualities, involving personality, leadership, friendliness and personal character.

#### 2.2 Work Loyalty

Work loyalty is defined by Sudimin (2003) as the willingness of employees to participate in achieving company goals by using all abilities, skills, thoughts and time and keeping company secrets and not doing activities that cause the company to lose. Loyalty is formulated by Sudimin (2003) as loyalty to someone and not being a traitor when needed. Robbins (2015) argues that loyalty is a willingness to protect and save one's feelings and physical. Siswanto (2005) defines loyalty as a determination and willingness to obey, do, and distribute something that is obeyed with full responsibility and awareness. Agustian (2009) defines loyalty as loyalty to the principles that are believed.) Employee loyalty is defined as an emotional attitude that is encouraging and loves his work (Dessler, 2015.

Basically loyalty can be defined as a person's loyalty to something that can be in the form of physical or non-physical loyalty such as attention and thoughts. To be successful in achieving company goals, companies absolutely need employees with high loyalty. Hasibuan (2016) argues that employees show loyalty with the sincerity of employees to defend and protect the company where they work from interference from people who want to bring the company down. Similar opinions were expressed by Poerwadarminta (2002) loyalty is trust, devotion and loyalty that is dedicated to a person or agency, in which there is responsibility and love and behave and provide the best service. The attitude of the company is an attitude, namely how far an employee identifies the company where he works by showing a desire to work and try his best and loyalty to the company is a behavior, which is a person's decision to stay in the company. Robbins (2015) argues that loyalty is related to the level of trust, namely a desire to save and protect someone. If someone has loyalty and trust in something, then that person is willing to sacrifice and be loyal to what he believes in. Thus, loyalty has a positive correlation with the level of trust, the higher the level of employee trust in the company, the level of loyalty of the employee to the company is also higher.

Poerwopoespito (2014), stated that loyalty to work is reflected by the attitude of employees who dedicate their abilities and expertise, do work with responsibility, are honest and disciplined at work. The work loyalty of employees to the company will be able to create a sense of responsibility and create enthusiasm and work motivation (Nitisemito, 2015). In order to create employee loyalty to the company, the company must try to make employees feel they belong to the company. With the feeling of belonging to the company, employees will also feel the development of the company. Based on the definition expressed by the experts above, it can be concluded that work loyalty is an employee's loyalty to the company which is shown through a strong desire to remain in the company and work well for the progress of the company as well as being willing to sacrifice and carry out activities to achieve company goals.

Steers and Porter (1983) describe several aspects of loyalty, including: strong motivation to remain a member of the company, motivation to work as well as possible and have a definite belief in company values. Meanwhile (Nitisemito, 2015) emphasizes aspects of loyalty to employee work activities, including: obeying regulations, showing a responsible work brush. The attitude of obeying the regulations is shown by having the determination and willingness to comply with all regulations, orders from the company and not violating the prohibitions that have been set, both verbally and in writing. Responsibility which is characterized by the willingness of employees to do the work with the best results and awareness of the risks in carrying out the task will provide an understanding of the willingness and courage to bear this sense of responsibility will create work loyalty. Aspects of loyalty according to Kurniawan (2015) are as follows: a) Obedient and obedient, b) responsibility, c) devotion and d) honesty. Obedience is the ability of an employee to comply with all applicable company regulations and obey orders from superiors, and is willing not to violate the prohibitions set. Responsibility is characterized by the willingness of an employee to carry out the work to completion with good results, on time and dare to take risks for decisions made or actions taken. Devotion, namely the contribution of thought and energy to the company with sincerity and honesty, there is harmony between what is said and reality. From the information above, it can be concluded that work loyalty is an employee's loyalty to the company. An employee with high work loyalty will have a strong motivation to remain in the company, high motivation to develop the company, have high trust in the company.

Simamora (2002) explains that there are three main reasons for loyalty, namely, a) rational factors related to something that can logically be explained, such as: wages, bonuses, career paths, facilities provided by the company, b) emotional factors related to feelings or emotions. self-expression, such as: a comfortable work environment, a challenging job, a feeling of security because in the long term you can still work in the company, a proud job, a charismatic leader, work culture, awards from the company, c) Spiritual factors related to spiritual needs such as: spiritual work, spiritual satisfaction, religious leaders, company attitudes towards spiritual missions, opportunities to carry out spiritual activities. Furthermore, Steers & Porter (1983) suggested several factors that influence the emergence of work loyalty: a) personal characteristics, which consist of gender, education level, age, years of service, achievements, personality traits and race. b) Job characteristics, consisting of: challenging work, job enrichment, task identification, task feedback, job stress, opportunities for social interaction, and task suitability c) organizational structure characteristics, which can be seen from the level of formality, centralization, level of involvement In decision making, at least it has shown various levels of association with corporate responsibility, functional dependence and corporate control functions, d) experience gained in the company, in the form of a positive attitude towards the company after carrying out tasks in the company so as to create a sense of security, personal satisfaction that is felt comes from the company. Based on the explanation above, it can be concluded that work loyalty is influenced by rational factors such as wages, career paths and bonuses, emotional factors such as a

comfortable work environment, challenging work, and spiritual factors including spiritual needs such as freedom to worship. Several empirical studies conducted by several researchers (Pradana and Nugraheni, 2015; Tamba and Sambul, 2018) prove that work loyalty has a dominant effect on employee performance.

H1: work loyalty affects employee performance

#### 2.3 Organizational Commitment

Sutrisno (2016) explains that organizational commitment is a high effort for the organization and a certain belief in acceptance of organizational values. Commitment to the organization also discusses employee closeness reflecting the strength of employee involvement and loyalty to the organization. Organizational commitment is seen as a value orientation towards the organization that shows individuals really think about and prioritize their work and organization. Individuals will try to give all the effort they have in order to help the organization achieve its goals. The success of organizational management is largely determined by the success in managing human resources. The high and low commitment of employees to the organization where they work, greatly determines the performance to be achieved by the organization. In the world of work, employee commitment has a very important influence, there are even some organizations that dare to include the element of commitment as a condition for holding the position/position offered in job advertisements. However, not infrequently employers and employees still do not understand the meaning of commitment seriously. Whereas this understanding is very important for the organization to create conducive working conditions, so that the organization can run effectively and efficiently. According to Robbins (2015), stated commitment to the organization is defined as a condition in which an employee sided with a particular organization and its goals, and intends to maintain membership in that organization. High commitment can be interpreted that siding with employees (loyalty) in the organization that employs them is high. Griffin (2017), states that organizational commitment is an attitude that reflects the extent to which an individual knows and is bound to his organization. Employees who feel more committed to the organization have reliable habits, plan to stay longer in the organization, and devote more effort to work. According to Nasution (2017), organizational commitment is the bond between an individual and an organization, an idea or project that is realized in dedicating himself to the achievement of the organization's mission. So, organizational commitment is the attitude of employees to remain in the organization and be involved in efforts to achieve the company's mission, values and goals. Commitment is a more concrete form of loyalty that can be seen from the extent to which employees devote attention to ideas and responsibilities in the company's efforts to achieve organizational goals.

According to Greenberg (2015) the forms of organizational commitment are:

- 1. Effective commitment is the strong desire of a person to work for an organization or company because he agrees with the goals of the organization and wants to do it.
- 2. Continuance commitment is a person's strong desire to continue his work for the organization because he needs the job and cannot do other work.
- 3. Normative commitment is the strong desire of a person to continue his work for the organization because he feels obligated by others to be maintained.

Commitment to employees does not just happen, but through a process that is so long and gradual. Employee commitment to the organization is also determined by a number of factors, Steers in Sopiah (2015) identifies three factors that influence organizational commitment, include:

- 1. Personal characteristics of performance, including tenure in the organization, and the variety of needs and desires of each employee.
- 2. Job characteristics, such as task identity and opportunities to interact with coworkers.
- 3. Work experience, such as past reliability of the organization and the way other workers express and talk about their feelings about the organization.

Organizational commitment arises gradually in the employee's personality. Starting from a personal need for the organization, then moving into a shared need and a sense of belonging from members (employees) to the organization Wursanto (2015) suggests that the sense of belonging from members (employees) to their group can be seen in the following ways:

- 1. The existence of loyalty from members to other members.
- 2. The existence of loyalty of members to the group.
- 3. Willingness to sacrifice sincerely from the members for the survival of the group.
- 4. There is a sense of pride from group members when the group gets reproach, whether it is done by individuals or other groups.
- 5. The existence of good intentions from group members to maintain the good name of the group under any circumstances.

Several previous studies conducted by Ratnasari et al., (2020), Amri et al., (2021), and Elisabeth et al., (2021) proved that organizational commitment has a significant effect on employee performance, and work loyalty has a significant effect on organizational commitment. Therefore, the following hypothesis can be formulated:

H2: work loyalty affects organizational commitment.

H3: organizational commitment affects employee performance

H4: organizational commitment is able to mediate the effect of work loyalty on employee performance



Figure 1. Research Model

#### 3. Methods

All employees of PT Air Bersih Jawa Timur, a government-owned clean water company in Surabaya, East Java, Indonesia, as many as 63 people were taken as research samples. The questionnaire technique is used to obtain data related to the research variables. The questionnaire is arranged in the form of a closed statement with 5 (five) alternative answers using Likert scale and data analysis technique used is Partial Least Square (SmartPLS).

#### 4. Result and Discussion

#### 4.1 Discriminant Validity

According to Ghozali (2014) discriminant validity can be known by looking at the average variant extracted (AVE) value for each indicator, the required value must be > 0.5 for a good model.

Variable	AVE
Employee Performance	0,823
Organizational Commitment	0,854
Work Loyalty	0.844

Table 1. Average Variant Extracted (AVE)

The data presentation in table 1 above shows that the AVE value of employee performance, organizational commitment, and work loyalty are above 0.5. So it can be concluded that each variable has good discriminant validity.

#### 4.2 Composite Reliability

Composite Reliability is the part that is used to test the reliability value of indicators on a variable. A variable can be declared to meet composite reliability if it has a composite reliability value > 0.6 (Ghozali, 2014). The following is the composite reliability value of each variable used in this study:

Table 2. Composite Reliability

Variable	Composite Reliability		
Employee Performance	0,959		
Organizational Commitment	0,946		
Work Loyalty	0,956		

The results in the table above state that all variables have a composite reliability value higher than 0.60, which means that all of these variables have good reliability.

#### 4.3 Cronbach Alpha

The reliability test with the composite reliability above can be strengthened by using the Cronbach alpha value. A variable can be declared reliable or meets cronbach alpha if it has a cronbach alpha value > 0.7 (Eisingerich and Rubera 2010). The following is the cronbach alpha value of each variable:

Table 3. Cronbach Alpha

Variable	Cronbach alpha	
Employee Performance	0,946	
Organizational Commitment	0,914	
Work Loyalty	0,938	

From the table 3 above, it can be concluded that all variables have a high level of reliability. It can be seen that the Cronbach alpha value of all variables are bigger than 0.7. Thus these results indicate that all variables have met the requirements for the Cronbach alpha value.

#### **4.4 Path Coefficient**

Path coefficient evaluation is used to show how strong the effect or influence of the independent variable on the dependent variable

Table 4. Path Coefficient

Variable	Original Sample		
Work Loyalty -> Employee Performance	0,334		
Work Loyalty -> Organizational Commitment	0,390		
Organizational Commitment -> Employee Performance	0,470		
Work Loyalty -> Organizational Commitment -> Work	0,183		
Performance			

Referring to the inner model scheme that has been shown in the table above, it can be explained that the largest path coefficient value is indicated by organizational commitment to employee performance of 0.470. Then the second biggest influence is work loyalty to organizational commitment of 0.390. Then next is work loyalty to employee performance of 0.334. Next is work loyalty to employee performance through organizational commitment of 0.183.

#### 4.5 Hypothesis Testing

The result from data processing can be used to answer the hypothesis in this research. Hypothesis testing in this research was carried out by looking at the comparison between T-Statistics value and the P-Values value. The research hypothesis will be accepted if the P-Values value < 0.05 (Yamin and Kurniawan 2011). The following are the results of hypothesis testing obtained in this research through the inner model:

Table 5. Uji Hypothesis

Hypothesis	Correlation	T-statistics	P-Values	Result
H1	Work loyalty -> employee performance	3,029	0,003	Accepted
H2	Work loyalty -> organizational	3,507	0,002	Accepted
	commitment			
Н3	Organizational commitment ->	3,149	0,000	Accepted
	employee performance			
H4	Work loyalty -> organizational	2,032	0,043	Accepted
	commitment -> employee performance			

Referring to the data presentation above, it can be seen that all hypotheses proposed in this study can be accepted because all of them have a P value smaller than 0.05. The effect of loyalty on employee performance has a P value of 0.003 or less than 0.05. This means that the loyalty variable has a significant effect on employee performance. The effect of loyalty on organizational commitment has a P value of 0.002 or less than 0.05. This means that the

loyalty variable has a significant effect on organizational commitment. The effect of organizational commitment on employee performance has a P value of 0.000 or small and large from 0.05. This means that the organizational commitment variable has a significant effect on employee performance. The effect of loyalty on employee performance through organizational commitment has a P value of 0.002 or less than 0.05. This means that the loyalty variable has a significant effect on employee performance through organizational commitment.

#### 5. Conclusion

The results showed that work loyalty had an effect on employee performance. This is based on the results of hypothesis testing where the P value of work loyalty on employee performance is less than 0.05, which means work loyalty has a significant effect on employee performance. This shows that the more positive work loyalty, the higher the employee's performance. Vice versa, the more negative work loyalty, the lower the employee's performance. The results showed that work loyalty has an effect on organizational commitment. This is based on the results of hypothesis testing where the P value of work loyalty to organizational commitment is less than 0.05, which means that work loyalty has a significant effect on organizational commitment. This means that the better the work loyalty, the better the organizational commitment will be. The results showed that organizational commitment had an effect on employee performance. This is based on the results of hypothesis testing where the P value of organizational commitment to employee performance is less than 0.05, which means organizational commitment has a significant effect on employee performance. This means that the more positive organizational commitment, the more positive impact on employee performance. Conversely, the more negative organizational commitment, the more negative impact on employee performance. The results showed that organizational commitment was able to mediate the effect of work loyalty on employee performance. This is based on the results of hypothesis testing where the P value of work loyalty on organizational commitment and employee performance is less than 0.05, which means organizational commitment is able to mediate the effect of work loyalty on employee performance.

#### References

Agustian, A. G., Rahasia Sukses Membangun Kecerdasan Emosi dan Spiritual ESQ: Emotional Spiritual Quotient berdasarkan 6 Rukun Iman dan 5 Rukun Islam, Jakarta: Arga Publishing, 2007.

Amri, A., et al., Effect of organization commitment, work motivation, and work discipline on employee performance (case study: PT. PLN (Persero) P3B Sumatra UPT Padang). *International Journal of Educational Management and Innovation*, Vol.2, No.1, pp. 88~99, 2021.

Dessler, G., Manajemen Sumber Daya Manusia, Jakarta: Salemba Empat, 2015.

Eisingerich, A. B., & Rubera, G., Drivers of Brand Commitment: A CrossNational Investigation. *Journal of International Marketing*, 18(2), 64–79, 2010.

Elisabeth, et al., Affective Commitment, Continuance Commitment, Normative Commitment, and Turnover Intention in Shoes Industry, *Annals of R.S.C.B.*, ISSN:1583-6258, Vol. 25, Issue 3, 2021.

Ghozali, Aplikasi Analisis Multivariete dengan Program IBM SPSS, Semarang: Badan Penerbit Universitas Diponegoro, 2014.

Gibson, J.L., et al., *Organisasi dan Manajemen: Perilaku, Struktur, dan Proses*, Translation by Joerban Wahid, Erlangga, Jakarta: Erlangga, 2015.

Gomes, F., Manajemen Sumber Daya Manusia (Indonesian Versian), Yogyakarta: Andi Offset, 2016.

Greenberg, B., Behaviour in Organizations, Understanding and Managing The Human Side of Work, Massachuscets: Allinand Bacon, A Division of Schuster, 2015.

Griffith, D & Kranenburg, The Effect of Organizational Culture and Leadership Style on Organizational Commitment within SMEs in Suriname with Job Satisfaction as a Mediator, An article was submitted of FHR Lim A Po Institute for Social Studies in association with the Maastricht School of Management, 2013.

Hasibuan, M.S.P., Manajemen Sumber Daya Manusia, Jakarta: Penerbit Rajawali, 2016.

Kurniawan, H. & Alimudin, A., Pengaruh Kepuasan Kerja, Motivasi Kerja dan Kedisiplinan Terhadap Kinerja Karyawan PT. Garam (Persero). *e-Journal Ilmu Manajemen*, Vol 1 No 2 (2015).

Mangkunegara, AA.A.P., Manajemen Sumber Daya Manusia Perusahaan. Bandung: Remaja Rosdakarya, 2016.

Mathis, R.L. & John, H.J., Human Resource Management. Jakarta: Salemba Empat, 2015.

Nasution, N., Manajemen Mutu Terpadu, Bogor: Ghalia Indonesia, 2015.

Nitisemito, A., Manajemen Sumber Daya Manusia, Bandung: Pustaka Setia, 2015.

Poerwadarminta, W.J.S., Kamus Besar Bahasa Indonesia. Jakarta: Balai Pustaka, 201

Poerwopoespito, Manajemen Sumber Daya Manusia. Jakarta: Pustaka Pelajar, 2014.

Pradana, R. & Nugraheni, R., Analisis pengaruh kepuasan kerja, loyalitas kerja, dan lingkungan kerja non fisik terhadap kinerja karyawan (Studi pada Bank Indonesia kota Semarang). *Diponegoro Journal of Management*, Volume 4, Nomor 4, Tahun 2015, Halaman 1-12, 2015.

Rachmawati, I.K., Manajemen Sumber Daya Manusia. Yogyakarta: ANDI OFFSET, 2015.

Ratnasari, S.R., et al., Employee Performance: Organizational Commitment, Motivation, Work Ability, and Work Environment. *International Journal of Advance Science and Technology*, Vol. 29 No. 10S, (2020), pp. 1074-1084, 2020.

Rivai, V.Z., Manajemen Sumber Daya Manusia Untuk Perusahaan, Edisike-7. Jakarta: PT. RAJAGRAFINDO, 2015.

Robbins, S.P., *Perilaku Organisasi : Konsep, Kontroversi, Aplikasi*, Edisi Kedelapan, Terjemahan Pujaatmaka Hadyana. Jakarta: PT. Prenhallindo, 2015.

Saputra, et al., Pengaruh Kepuasan Kerja dan Loyalitas Karyawan terhadap Kinerja Karyawan : PT. Sun Star Motors Cabang Negara, *Jurnal Bisnis Pendidikan Ganesha Jurursan Manajemen*, Vol. 4:1-8, 2016.

Simamora, B., Panduan Riset Perilaku Konsumen, Jakarta: PT Gramedia Pustaka Utama, 2002.

Siswanto, B., Manajemen Tenaga Kerja Indonesia Pendekatan Administrarif dan Operasional. Jakarta: Bumi Aksara, 2005.

Sofyandi, H., Manajemen Sumber Daya Manusia, Yogyakarta: Graha Ilmu, 2013.

Sopiah, Perilaku organisasi, Yogyakarta: Andi Offset, 2015

Steers, R.M. & Porter, L.W., Motivation and Work Behavior, New York: Acadaemic Press, 1983.

Sudimin, T., Whistleblowing: Dilema Loyalitas dan Tanggung Jawab Publik, *Jurmal Manajemen dan Usahawan*, Vol. 12 no. 11, 2003.

Sutrisno, E., Manajemen Sumber Daya Manusia, Jakarta: Kencana Prenada Media Group, 2016.

Suyono, J., et al, The nightmare of turnover intention for company in Indonesia, *Opción*, Año 36, Regular No.91: 871-888, 2020.

Tamba, A.W., Pio, R.J. & Sambul, S.A.P., Pengaruh Disiplin Kerja Dan Loyalitas Karyawan Terhadap Kinerja Karyawan Pada PT. Columbindo Perdana Cabang Manado. *Jurnal Administrasi Bisnis*, Vol 7 No.1 Tahun 2018.

Widia and Rusdianti, Pengaruh Disiplin Kerja Dan Kepuasan Kerja Terhadap Kinerja Pegawai Dengan Tambahan Penghasilan Pegawai Sebagai Variabel Moderating, *Jurnal Riset Ekonomi dan Bisnis*, Vol 11, No,2, 2018.

Widodo, S., Manajemen Sumber Daya Manusia: Teori, Perencanaan Strategi, Isu-isu Utama dan Globalisasi. Bandung: Manggu Media, 2016.

Wursanto, Dasar-Dasar Ilmu Organisasi, Yogyakarta: Andi Offset, 2015.

Yamin, S., and Kurniawan. Generasi Baru Mengolah Data Penelitian dengan Partial Least Square Path Modeling: Aplikasi dengan Software XLSTAT, SmartPLS, dan Visual PLS., Infotek, Jakarta: 2011.

#### **Biographies**

**Nasyik Ifadah** is a Master of Management Student at Narotama University, Surabaya Indonesia, majoring in human resource management. She got Bachelor Degree in Accounting from Universitas Airlangga, Surabaya, Indonesia. He works at government-own water company, PT. Air Bersih Jatim (Perseroda), Surabaya, Indonesia as HR Supervisor.

**Arasy Alimudin** is Associate Professor of strategic management, and Lecturer of Master Degree Program of Narotama University, Surabaya. He got Doctoral Degree in Strategic Management from Universitas 17 Agustus 1945 Surabaya, Indonesia.

**Tri Utoyo** is a Master of Management Student at Narotama University, Surabaya Indonesia, majoring in human resource management. He works at government-own water company, PT. Air Bersih Jatim (Perseroda), Surabaya, Indonesia as Finance Director.

**Joko Suyono** is a lecturer at Narotama University, Surabaya, Indonesia. He is also as Head of Master of Management at Narotama University, Surabaya, Indonesia. He got bachelor degree in business administration and also accounting, he got master degree in industrial management and also in marketing management, and he got doctoral degree in management majoring in human resource management from Universitas Airlangga, Indonesia. Prior becoming a lecturer, he is a practitioner as senior manager in some multinational corporation such as Stanley Works Indonesia (USA Company), Ericsson Indonesia (European Company) and Lotus Indah Textile Industries, a multinational company in the textile, spun yarns.

**Subas** is a lecturer at Sekolah Tinggi Agama Islam Al Fithrah, Surabaya, Indonesia. He got Bachelor Degree in accounting from Universitas Wijaya Kusuma, Surabaya, Indonesia and got Master Degree in financial management from Universitas Gajayana, Malang, Indonesia.