Kansei Engineering and Design Thinking Methodology for Product/Service Design

Markus Hartono

Department of Industrial Engineering
University of Surabaya
Jalan Raya Kalirungkut, Tenggilis, Surabaya 60293, Indonesia
markus@staff.ubaya.ac.id

Abstract

This study discusses the similarity and difference between Kansei Engineering (KE) and Design Thinking (DT) methodology. Inherently, KE focuses on the exploration of customer emotional needs and translates them into product and service properties. Through customer experience with product/service, which product/service attributes are found to be critical. On the other hand, DT starts with the identification of problem dealt with empathy and ends with product testing. These KE and DT methodologies have some similarities and differences. This study integrates these two methodologies and provides a unified framework of KE-DT putting forward the customer emotional needs which are accommodating the customer empathies and complex human-environment interaction and ending with the testing of proposed solutions. It is hoped that the proposed framework of KE-DT provides more efficient, effective, and sustainable approach addressed to the development of products and services.

Keywords

Kansei Engineering, Design Thinking, Product, Service, Emotional Needs

1. Introduction & Motivation

Everyone has a Kansei. When we see a beautiful flower, we will then say, "What an amazing flower!", "It's so beautiful!", "An amazing creation!" Also, when we meet a friendly staff in a shopping center or a luxurious hotel, we talk in our heart and say, "I like the way the staff serves me!", "He has a heart", "You've got the heart of customer!" That is called Kansei; it is something beyond the words, it is more on satisfaction. It will be a good remembrance for a certain product or service. Not only positive impression, Kansei will occur when we have a bad experience. When we feel dissatisfied due to certain product or service experience, for instance, when the staff in a hotel is not so responsive to our request, then we will have a bad feeling. People with lots of emotions will show their feelings fully once there is a stimulus which matches their emotions. The manifestation of their emotions will be optimal.

Looking at the interaction between employee and customer; a happy employee due to the perception of training and/or the meaning of work given will produce good emotions. Later, it will be contagious to the customers. As a result, the customers will be happy and satisfied. The basis for Kansei is the human five senses. Among five senses, the visual-based emotion is found to be the most dominant sensory stimulation. It counts about 70% of the whole information and perception which impacts Kansei (Nagamachi & Lokman, 2015). It would be great once the stimulus is fully accepted by all senses; it could be a combination of eyesight, taste, and touch. The perfection of full emotion or Kansei of someone is expected. More senses impacted, more Kansei accepted.

Kansei-based design for products or services offers a practical guideline for product or service designer and also an evaluation tool for the existing products or services. A popular Kansei-based design methodology is called as Kansei Engineering (KE). KE has a unique superiority in terms of its flexibility to engage with other methods in improving

the quality of product and service design. In understanding the user expectation and experience better and better, the modified adjusted KE methodology is always open (Hartono, 2020).

In general, KE methodology starts with the choice of service or product – human interaction system. Once a product is of interest, it will be a focus of exploration. Based on the prior similar product interaction and experience, the product attributes (forms, shapes, and functions) are explored and defined. All product attributes perception will bring impact on user/customer Kansei. Kansei consists of hearing, eyesight, smell, touch, and taste; they are known as human five senses. Also, there is an internal receptor to complement the human senses. When something is experienced, perceived, and met with the similar previous experience, then our emotion will be revealed. It is also applied in product interaction. For instance, someone eats a chocolate bar, the crunchiness, smell, and taste of that chocolate bar will be sensed. Kansei works. We will say, "This chocolate is so tasty and crunchy, also milky", "The smell is appetizing, it brings to Switzerland." Also, the feeling of current experience is strengthened by the previous experience, and indirectly, this feeling or impression or Kansei can be predicted. In other words, Kansei is strongly defined once it is confirmed. More human senses influenced, the stronger the Kansei is. This mechanism is shown in Figure 1. Apart from physical products, Kansei is also experienced by someone in a service environment. Using the same mechanism of Kansei expression, through service stimuli received by human senses, all those inputs will be perceived and influence Kansei. For instance, a staff in a department store should be aware of customer response through facial expressions and verbal communication due to service perception.

Actually, Kansei is deemed to be an indicator of customer or user satisfaction due to service or product delivered. Kansei might be a symptom of customer problem. It is either spoken or even unspoken problems. It can be potential problems or latent needs. Kansei can also be deemed as the representation of customer satisfaction. Everything is simplified and fully satisfied, or perhaps there are rooms for improvement. In KE methodology, the identification of both service or product attributes and their respective Kansei is the most critical part. Afterward, the analysis of which service or product attributes are significantly connected to certain Kansei will be conducted. It is important to identify which service or product attributes are critical to be improved. The entire step of KE simple methodology is shown in Figure 2. In addition, the KE methodology is extended into service design and development, as shown in Figure 3. A study by Hartono (2020) shows the importance of KE for service development and sustainability.

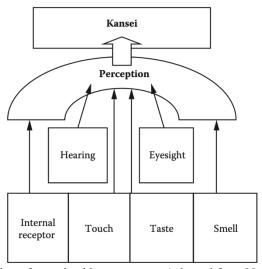


Figure 1. Kansei as a function of perceived human senses (adopted from Nagamachi & Lokman, 2015)

Related to the first step in DT methodology, it is advised to observe, engage, and empathize with customer or user to understand what his/her motivation in using products, experiencing services, and to probe any possible problems. Moreover, immersing us in the real physical environment is critical in gaining a deeper understanding of any issues or problems faced by customer or user. This step is crucial as well to set aside the designer's point of view and initial assumptions about any phenomenon. What perceived by the designers may be different from what have been addressed by customer. Thus, it needs a wiser approach to come out with any possible human-product/service system interaction.

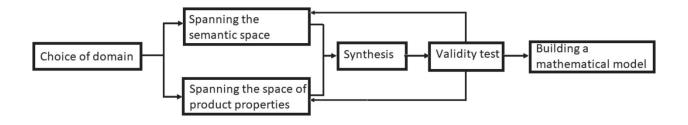


Figure 2. General KE methodology for product experience (adopted from Schütte et al., 2004)

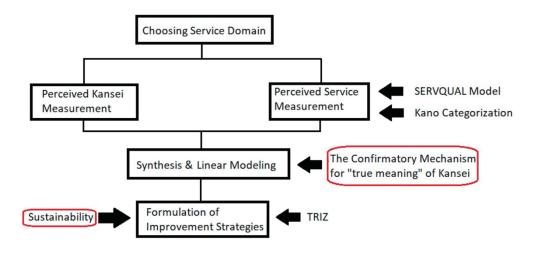


Figure 3. KE Framework in service design and sustainability (adopted from Hartono, 2020)

Since KE methodology deals with customer emotional needs (known as Kansei) and translates them into product or service attributes, the understanding of customer needs deeper and clearer is highly required. Once the synthesis of product/service attributes and Kansei finalized, a proposed improvement (it may be accompanied by a prototype or model or another type of outcome) will be implemented and tested. The feedbacks from the lead user and potential customer/user are expected to justify the appropriateness of proposed solution, and potentially give inputs to a new problem. It is a room for improvement in the KE methodology by engaging DT methodology.

Regarding the research gap, it is summarized as follows. There is questionable whether Kansei Engineering is closely related to Design Thinking. If it is so, how they are explained as both methods put a concern on empathy and human-system problem for product/service setting and experience. Hence, as an objective, this study will discuss a refined KE methodology incorporating DT methodology called as KE-DT methodology for product/service design and development.

2. Brief Literature Review and Proposed Framework Development of Kansei Engineering – Design Thinking (KE-DT)

Design has been regarded as the main activity in the engineering field, and also extended in the social engineering area. What are needed and whether the customers are satisfied with the existing condition are the trigger for understanding potential problems, and should be followed with appropriate engineering action. It is the start of a design process (Razzouk & Shute, 2012). Designing products and services which satisfy customer is a major component of business competition. More specifically, design process which deals with social problem is of beneficial.

Thus, Design Thinking (DT) methodology is proposed. This DT methodology promotes product and service design in line with the customer and provider expectation and also the improvement of quality (Stickdorn, 2018).

Kansei Engineering (KE) is well known as a powerful ergonomic product design methodology taking into account customer emotional needs (Nagamachi & Lokman, 2015; Nagamachi, 2002). Recent studies show that some have done the implementation of the proposed design, some haven't yet. It is especially for service design. Usually, it stopped at the proposed solution recommendation (see Hartono & Tan, 2011; Hartono, 2020). Hence, a more complete KE methodology can be done through adopting the DT methodology.

The consolidation of KE and DT is believed to provide deeper understanding of user experience and interaction taking into consideration the entire related product/service attributes and customer emotional needs. The main backbone of this study is DT methodology. DT is inherently defined as a systematic process which engages someone or group to do experiment, build and test prototype, gaining feedback from user, and redesign it. Empathy, creativity, and visualization should be appealing in the design process. According to Owen (2007), the concept of design thinking is more on process of synthesis and addressing the real problem (see Figure 4). Design is highly connected to model/framework generation and strongly concerned with real-case subject.

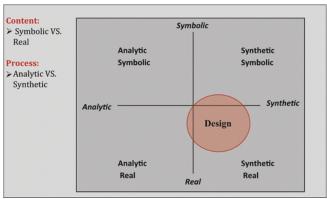


Figure 4. A conceptual representation of process and content in a design thinking (adopted from Owen, 2007)

KE methodology is product and service development and design framework indeed (see Figure 5 for the details of consolidation framework of KE-DT). At the initial stage, both KE and DT has the same step which is to understand the human-system interaction. It may be either a new environment or an experienced environment. Using both linear and non-linear type of DT methodology, after understanding the human-system interaction, through empathize step, a designer needs to choose service/product domain which is of interest, and to define the problem. It is an empathic recognition of the possible and potential problem(s) the designers or engineers are trying to solve. The potential problems may be recognized from customer complaint, customer review, and verbal or non-verbal customer communication.

Afterward, it moves to the define step. It is to analyze our observation and do synthesis them in order to formulize the core problems. The core problems should be related to complex human-centered perspective point of view. In other words, it is more on understanding what is required by customers – what the goal is. Here, Kansei words are identified, finalized, and measured. Concurrently, the product or service attributes are defined and measured. SERVQUAL model is usually used in dealing with services, whereas product dimension categorization is used in dealing with physical product. Kano categorization is utilized to filter which attributes are critical for improvement (see Hartono & Tan, 2011). Kansei is found to be a function of perceived product or service performance, thus, the Kansei response is linked to the perceived product or service performance. It is called as Kansei modeling. In order to validate the formed Kansei model, the confirmatory mechanism for "true meaning" of Kansei is used (Hartono, 2020). Once the linear or non-linear KE model is formed, it needs to check whether the model is valid and make-sense by confirming it with the real condition experienced by the actual customers.

The next step is that the ideate. Based on the confirmed significant relationship between Kansei and product/service attributes as done in the previous step, it is important to list the most critical product/service attributes need to be improved. Using the House of Quality (HoQ), for instance, those critical product/service attributes (known as

WHATs) will be linked to alternative solutions (usually known as HOWs). Some relevant tools are listed as alternatives, such as brainstorming, Quality Function Deployment (QFD), Theory of Inventive Problem Solving (TIPS/TRIZ) (Hartono, 2016). A recent issue on sustainability can be considered as well. In general, the ideation step is about to consolidate some possible solutions internally and externally. Once there are some possible solutions, due to limited resources, a prioritization step should be conducted. Pareto analysis is a common tool to be used.

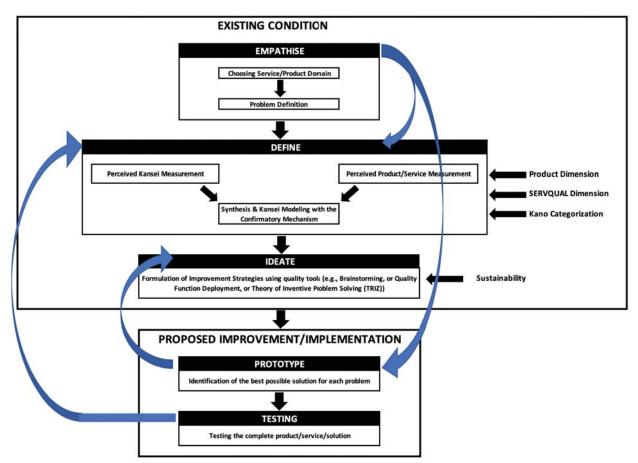


Figure 5. A proposed KE-DT methodology for product/service design and development

Once all the previous steps settled (categorized as the existing condition), a group of proposed improvement/implementation step will follow. It consists of prototyping and testing. Prototyping is a way of experimental stage. It is to create a physical model or real improvement strategy. Afterward, a testing will be conducted. It is a final and complete physical product or service solution to be tested in a real environment with actual or potential user/customer.

With regard to non-linear KE-DT methodology, after empathize stage, it can move to either define or directly to prototyping step. Also, from prototyping it can return to ideation step. It means that there is something to refine based on the prototyping result. After testing, it also can give feedback to the define step. It means that there is another potential problem identified. In general, this combined KE-DT methodology accommodates the concurrent processes in the product or service design and development incorporating customer emotional needs (Kansei).

3. Discussion

Design Thinking (DT) has become a dominant and integral part of the engineering design and business field. It promotes across disciplines since it has a methodology for product, service, and even system design incorporating creative thinking in exploring and generating some possible solutions to any social and engineering problems. Due to

a more complex problem and customer dynamics, a more mature approach in design is needed. According to Gloppen (2009), a design attitude differentiates an approach for solving problem with regard to continuous invention and striving a better place to live for human beings.

Due to more complex problems, Kansei Engineering (KE) should be adjusted to be more relevant in handling various cases. DT is chosen to be a relevant model to be combined with. DT is believed to accommodate wider perspective in human-system interaction. It starts with empathize, which is to observe, interview, and understand deeper what is required by the subject or user or customer. Surely, it is relevant to KE. KE stresses on the importance of user/customer emotions. Through empathy, customer emotions can be revealed and explored. This proposed integrated KE-DT methodology complements the existing KE framework/methodology by engaging the improvement/implementation stage (which is comprised 2 parts, i.e., prototyping and testing). It is wrapped in the design thinking framework.

The superiority of this proposed KE-DT framework is that its ability to dealing with various physical products or non-physical services, and its flexibility to engage with many quality tools. It has the common objective of how to achieve more efficient and effective solution regard to any social-engineering problems.

In dealing with real case studies, there are some conditions to be considered. These are referred to design-thinker characteristics, as follow (Razzouk & Shute, 2012). First, it is human and environment-centered concern. The proposed designs (either product or service) should focus on human needs and sustainable environment concurrently. Second, it should be visualized. Third, it promotes multifunctionality; it means that more diverse or multiple solutions are expected. It is also referred to system thinking. The solutions are not meant to be engaged with 1 problem, instead, they can accommodate more and various problems. Fourth, it puts forward multidisciplinary approach.

Some domains of empirical study examples to be considered such as mechanical engineering, industrial design, software design, industrial services, and IOT-based design.

4. Conclusion

This study proposes a joint framework of Kansei Engineering (KE) and Design Thinking (DT), named as KE-DT methodology. KE methodology has been extensively used for product and service design, and it has extended as well in terms of its ability to engage with quality tools. With rapid growth of customer needs and complex socio-technical problems, more relevant and updated KE approach is needed. Hence, this study proposes an integrated KE-DT framework which can be applied to both physical products and non-physical services. Human and environment-centered and multidisciplinary approach are the main characteristic of this framework. An empirical study is needed for future research.

This study is considered a preliminary research proposing a conceptual framework of KE-DT. As this is also a limitation of the study, hence in the future it is recommended to validate the proposed KE-DT methodology considering a complex service setting. It is specially to prove that KE has a close relationship with DT.

Acknowledgement

This research has been fully financially supported by the research grant from the Ministry of Education, Culture, Research, and Technology Republic of Indonesia year 2021 with a contract number: 003/SP2H/LT-MULTI-PDPK/LL7/2021.

References

- Gloppen, J., Perspectives on design leadership and design thinking and how they relate to European service industries, *Design Management Journal*, vol. 4, no. 1, pp. 33–47, 2009.
- Hartono, M., The modified Kansei Engineering-based application for sustainable service design, *International Journal of Industrial Ergonomics*, vol. 79, 2020.
- Hartono, M., The extended integrated model of Kansei Engineering, Kano, and TRIZ incorporating cultural differences into services, *International Journal of Technology*, vol. 1, pp. 97-104, 2016.

- Hartono, M. and Tan, K.C., How the Kano model contributes to Kansei engineering in services, *Ergonomics*, vol. 54 no. 11, pp. 987–1004, 2011.
- Nagamachi, M., Kansei Engineering as a powerful consumer-oriented technology for product development, *Applied Ergonomics*, vol. 33, pp. 289–294, 2002.
- Nagamachi, M., and Lokman, A.M., Kansei Innovation Practical Design Applications for Product and Service Development, CRC Press Taylor & Francis Group, Boca Raton, FL, 2015.
- Owen, C., Design thinking: Notes on its nature and use, *Design Research Quarterly*, no. 2, pp. 16–27, 2007.
- Schütte, S., Eklund, J., Axelsson, J.R.C., and Nagamachi, M., Concepts, methods, and tools in Kansei engineering, *Theoretical Issues of Ergonomics Science*, vol. 5, pp. 214–232, 2004.
- Razzouk, R., and Shute, V., What is Design Thinking and Why Is It Important? *Review of Educational Research*, vol. 82, pp. 330 348, 2012.
- Stickdorn, M., Hormess, M., Lawrence, A., Schneider, J., *This is Service Design Doing*, O'Reilly Media, Incorporated, 2018.

Biography

Markus Hartono is an Associate Professor in Industrial Engineering at the University of Surabaya, Indonesia, and the Dean of Faculty of Creative Industries at the University of Surabaya, Indonesia. He earned M.Sc. and Ph.D. with full scholarships in Industrial and Systems Engineering from National University of Singapore, Singapore. He has published journal and conference papers in the areas of Ergonomics/Human Factors Engineering, Industrial and Systems Engineering, Kansei Engineering, and Product Design. He is also a Certified Human Factors Professional (CHFP) by Board of Certification in Professional Ergonomics (BCPE), a Professional Engineer of Indonesian Engineers Association (PII), ASEAN Engineer, and Indonesian Accreditation Board for Engineering Education (IABEE) Evaluator.



2nd Asia Pacific Conference on **Industrial Engineering and** Operations Management
Sept. 14-16, 2021, Surakarta, Indonesia
Host: Sebelas Maret University (UNS)















Home Authors Program Registration Committee Competitions Keynote Global Engineering Education SCM Industry 4.0 Panels

Sponsors

Committee

Conference Committee

CONFERENCE CHAIRS:

Dr. Ir. Wahyudi Sutopo, ST., M.Si, IPM

Professor, Department of Industrial Engineering

Head of Industrial Engineering and Techno-Economics Research Group, Department of Industrial Engineering

Vice Dean for Human Resources, Finance, and Logistics

Faculty of Engineering

Universitas Sebelas Maret (UNS), Surakarta, Indonesia

President, IEOM Indonesia Chapter

Professor Don Reimer, IEOM Fellow

Director of Membership and Chapter Development - IEOM Society

President, The Small Business Strategy Group, Detroit, Michigan, USA

Adjunct Faculty - A. Leon Linton Department of Mechanical, Robotics and Industrial Engineering, Lawrence Technological University, Southfield, Michigan, USA

HONORARY CHAIRS

- Prof. Dr. Kuncoro Diharjo, S.T., M.T., Vice Rector for Research and Innovation, Universitas Sebelas Maret (UNS)
- Dr. techn. Ir. Sholihin As'ad, M.T., Dean, Faculty of Engineering Universitas Sebelas Maret (UNS)

PROGRAM CHAIRS

- Dr. Muh. Hisjam, STP, MT, Department of Industrial Engineering, Universitas Sebelas Maret
- Dwi Agustina Kurniawati, S.T., M.Eng., Ph.D, Department of Industrial Engineering, Universitas Islam Negeri Sunan Kalijaga, Yogyakarta, Indonesia
- Dr. Anak Agung Sagung Manik Mahachandra Jayanthi Mertha, ST, MSc, Department of Industrial Engineering, Universitas Diponegoro, Semarang, Indonesia

TECHNICAL CHAIRS

- Dr. Eng. Boby Kurniawan, ST, MT, Department of Industrial Engineering, Universitas Sultan Ageng Tirtayasa, Serang, Indonesia
- Dr. Carles Sitompul, S.T., M.T., M.I.M., Department of Industrial Engineering, Universitas Parahyangan, Bandung, Indonesia

GLOBAL ENGINEERING EDUCATION CHAIR

 Assoc. Prof. Dr Syed Ahmad Helmi Syed Hassan, Associate Fellow, Center for Engineering Education (CEE), Universiti Teknologi Malaysia

GLOBAL BUSINESS MANAGEMENT EDUCAITON CHAIR

Dr. Imam Shofwan, Semarang State University, Indonesia

INDUSTRY SOLUTIONS CHAIRS

- Dr. Ahmad Syamil, CFPIM, CIRM, CSCP, Dean of Binus Business School, Bina Nusantara University, Jakarta
- Dr. Ir. Zaenal Muttaqien, SE., S.Pd., MT., IPM, AER, The board of industrial engineering chapter the institute of Indonesian engineers (BKTI-PII), Department of Industrial Engineering, Universitas Jenderal Achmad Yani, Bandung, Indonesia
- Dr. Basuki Rahmad, ST, MT, CEO PT. Transforma Engineering & Solutions, Telkom University, Bandung, Indonesia

WOMEN IN INDUSTRY AND ACADEMIA CHAIRS

- Dr. Ir. Tiena G. Amran, IPU, AER, The board of industrial engineering chapter the institute of Indonesian engineers (BKTI-PII), Department of Industrial Engineering, Universitas Trisaksi, Jakarta, Indonesia
- Prof. Nilda Tri Putri, S.T., M.T., Ph.D, Deparment of Industrial Engineering, Universitas Andalas, Padang, Indonesia

PUBLICATION CHAIRS

- Lina Gozali, S.T., M.M., Ph.D., Department of Industrial Engineering, Universitas Tarumanegara, Jakarta, Indonesia
- Mohammad Mi'radj Isnaini, S.T., M.T., Ph.D., Department of Industrial Engineering, Institut Teknologi Bandung (ITB),
 Bandung, Indonesia
- Dr. Mohammed Rahman, Central Connecticut State University, USA

SPONSORS AND EXHIBITORS CHAIR

- Professor Don Reimer, Lawrence Technological University, Southfield, Michigan, USA
- Dr. Naniek Utami Handayani, S.Si, MT, Department of Industrial Engineering, Universitas Diponegoro, Semarang, Indonesia

COMPETITIONS CHAIRS

Undergraduate Student Paper Competition Sponsored by SIEMENS

- Eko Setiawan, ST, MT, Ph.D., Head of Industrial Engineering Study Programme, Universitas Muhammadiyah Surakarta, Indonesia
- Dr. Ratna Purwaningsih, ST., MT., Head of Industrial Engineering Department, Universitas Diponegoro, Semarang, Indonesia

Graduate Student Paper Competition Sponsored by EATON Corporation

 Dr. Eng. Desto Jumeno, ST, MT, Head of Master Program in Industrial Engineering, Universitas Andalas, Padang, Indonesia

Master Thesis Competition Chairs

- Dr. Eko Pujiyanto, S.Si, MT, Head of Master Program in Industrial Engineering, Universitas Sebelas Maret, Surakarta, Indonesia
- Dr. Jafri Mohd. Rohani, University of Technology, Malaysia

Doctoral Dissertation Competition Chairs

- Nur Aini Masruroh, ST., M.Sc., Ph.D, Department of Industrial Engineering, Universitas Gadjah Mada (UGM), Yogyakarta, Indonesia
- Dr. Mehran Doulat, Center for Quality and Sustainability, School of Engineering and Advanced Technology, UTM Kuala Lumpur, Malaysia

Senior Capstone Design Project / FYP Poster Competition Chairs

- Fitra Lestari, Ph.D., Head of Industrial Engineering Study Programme, UIN Sultan Syarif Kasim, Indonesia
- Dr. M. Shamsuzzaman, University of Sharjah, UAE

Undergraduate Research Competition Chairs

- Dr. Eko Liquiddanu, ST, MT, Head of Industrial Engineering Study Programme, Universitas Sebelas Maret, Surakarta, Indonesia
- Dr. Singgih Saptadi, ST., MT, Head of Industrial Engineering Study Programme, Universitas Diponegoro, Semarang, Indonesia

Lean Six Sigma Competition Chairs

- Dr. Dra. Hennie Husniah, M.T., Dean, Faculty of Engineering, Langlangbuana University, Bandung, Indonesia
- Dr. Dra. Amelia Santoso M.T., Head of Master Program in Industrial Engineering, Universitas Surabaya, Surabaya, Indonesia
- Assoc. Prof. Dr. Adnan Hassan, University of Technology, Malaysia

Simulation Competition Chairs

- Nurhadi Siswanto, S.T., MSIE., Ph.D, Institut Teknologi Sepuluh November (ITS), Surabaya, Indonesia
- Dr. Rohaizan Ramlan, Universiti Tun Hussein Onn Malaysia

Supply Chain and Logistics Competition Chairs

- Dr. Eng. Erwin Widodo, ST, M. Eng, Institut Teknologi Sepuluh November (ITS), Surabaya, Indonesia
- Dr. Azanizawati Ma'aram; Universiti Teknologi Malaysia

Human Factors and Ergonomics Competition

• Ing. Novie Susanto, S.T., M.Eng, Department of Industrial Engineering, Universitas Diponegoro

Poster Competition Chairs

- Dr. Indri Hapsari, S.T., M.T., Head of Industrial Engineering Study Programme, Universitas Surabaya, Surabaya, Indonesia
- Dr. Henny, ST., M.T., Head of Industrial Engineering Study Programme, Universitas Komputer Indonesia, Bandung,
 Indonesia

REGIONAL ACADEMIC COMMITTEE

- Prof. Dr. Bambang Suhardi, S.T.,M.T., Department of Industrial Engineering, Universitas Sebelas Maret, (Chair)
- Dr. Eng. R.B. Seno Wulung, Politeknik ATK Yogyakarta, Indonesia,

- Dr. Anugerah Widiyanto, B.Sc., M.Eng, Agency for the Assessment and Application of Technology, Serpong, Indonesia,
- Dr. Docki Saraswati, Industrial Engineering, Universitas Trisakti, Jakarta, Indonesia,
- Dr. Dwi Kurniawan, ST, MT, Department of Industrial Engineering, Institut Teknologi Nasional, Bandung, Indonesia,
- Dr. Ellysa Nursanti, ST, MT, Institut Teknologi Nasional, Malang, Indonesia,
- Dr. Eng Cahyono Sigit Pramudyo, M.T, Department of Industrial Engineering, Universitas Islam Negeri Sunan Kalijaga, Yogyakarta, Indonesia,
- Dr. Eng. Muhammad Rusman, Head of Industrial Engineering Department, Hasanuddin University, Makassar, South Sulawesi, Indonesia,
- Dr. Evizal Abdul kadir ST, M.Eng, Universitas Islam Riau, Pekan Baru, Indonesia,
- Dr. Gede Agus Widyadana, Industrial Engineering Department, Petra Christian University, Surabaya, Indonesia,
- Dr. Hari-Agung Yuniarto, Researcher in Maintenance and Quality System Engineering, Universitas Gadjah Mada (UGM), Yogyakarta, Indonesia,
- Dr. Ho Hwi Chie, Dean, Binus Aso School of Engineering, Bina Nusantara University (Binus), Tangerang, Banten, Indonesia.
- Dr. -Ing. Amalia Suzianti S.T., M.Sc.; Department of Industrial Engineering, Universitas Indonesia,
- Dr. Ir. R. Hari Setyanto, M.Si, Department of Industrial Engineering, Universitas Sebelas Maret
- Dr. Ishardita Pambudi Tama, Head of Industrial Engineering Department, Universitas Brawijaya, Malang, Indonesia,
- Dr. Lobes Herdiman, ST., MT, Department of Industrial Engineering, Universitas Sebelas Maret
- Dr. Mustofa, ST, MT, Politeknik STMI Jakarta, Indonesia,
- Dr. Paulina Kus Ariningsih, Industrial Engineering Department, Faculty of Industrial Technology, Parahyangan Catholic University (UNPAR), Bandung, West Java, Indonesia ,
- Dr. Rina Fitriana, ST, MM, IPM, Department of Industrial Engineering, Universitas Trisakti, Indonesia
- Dr. Sawarni Hasibuan, School of Industrial Engineering, Mercu Buana University, West Java, Indonesia,
- Dr. Subagyo, Associate Professor, Mechanical & Industrial Engineering Department, Universitas Gadjah Mada, Yogyakarta, Indonesia,
- Dr. Sugiono, Universitas Brawijaya, Kota Malang, Jawa Timur, Indonesia,
- Hari Prasetyo, Ph.D; Department of Industrial Engineering, Universitas Muhammadiyah Surakarta, Indonesia,
- Prof. Dr. Sudradjat Supian, Dean of Faculty of Mathematics and Natural Sciences (FMIPA), Universitas Padjadjaran, West Java, Indonesia,
- Prof. Ir. Moses Laksono Singgih M.Sc Ph.D, Institut Teknologi Sepuluh November (ITS), Surabaya, Indonesia,
- Winda Nur Cahya, S.T., M.Sc., Ph.D, Head of Magister Industrial Engineering, Universitas Islam Indonesia, Yogyakarta, Indonesia.
- Dr. Jupriyanto, ST, MT, IPU, Defense Industry Study Program, Indonesia Defence University,
- Gusti Fauza, S.T., M.T., Ph.D., Food Technology Study Program, Universitas Sebelas Maret, Indonesia
- Dr. Ir. Endah Retno Dyartanti, M.T., University Centre of Excellence for Electrical Energy Storage Technology,
 Universitas Sebelas Maret, Surakarta, Indonesia

HONORARY COMMITTEE

- 1. Prof. Dr. Kuncoro Diharjo, S.T., M.T., Vice Rector for Research and Innovation, Universitas Sebelas Maret, (Chair),
- 2. Dr.techn.Ir. Sholihin As'ad, M.T., Dean, Faculty of Engineering Universitas Sebelas Maret
- 3. Professor Dr. Ir. Susy Susmartini, MSIE, Department of Industrial Engineering, Universitas Sebelas Maret (UNS),
- 4. Professor Dr. Eng. Agus Purwanto, S.T., M.T., Universitas Sebelas Maret, Surakarta Indonesia,
- 5. Professor Dr. Ir. Abdul Hakim Halim, M. Eng, Department of Industrial Engineering, Institut Teknologi Bandung (ITB), Bandung, Indonesia,
- 6. Professor Dr. Ir. Budisantoso Wirjodirdjo, Institut Teknologi Sepuluh November (ITS), Surabaya, Indonesia,
- 7. Professor Dr. Ir. Sukaria Sinulingga, M. Eng, Department of Industrial Engineering Universitas Sumatera Utara, Medan. Indonesia.
- 8. Professor Dr. Ir. Yuri M. Zagloel, M.Sc. Eng, Department of Industrial Engineering, Universitas Indonesia, Jakarta, Indonesia,
- 9. Professor Dr. Mohd Razali Muhamad, Deputy Vice Chancellor (Academic and Internationalization), Universiti Teknikal Malaysia Melaka,
- 10. Professor Dr. Norazman Mohamad Nor, Deputy Vice Chancellor (Research and Innovation), National Defence University of Malaysia in Kuala Lumpur,
- 11. Professor Ir. Joniarto Parung, M.MBA.T., Ph.D., IPU, Universitas Surabaya

- 12. Professor Muhammad Nizam, S.T., M.T., Ph.D., Universitas Sebelas Maret, Surakarta Indonesia,
- 13. Professor Dr. Aries Susanty, ST, MT, Department of Industrial Engineering, Universitas Diponegoro, Semarang, Indonesia
- 14. Prof.Dr. Mohd. Hasbullah bin Hj. Idris, Chair of School Mechanical Engineering, Faculty of Engineering, Universiti Teknologi Malaysia,

ADVISORY COMMITTEE

- 1. Professor Dody Ariawan, S.T., M.T., Ph.D., Vice Dean for Deputy Dean for Academic, Research and Student Affairs, Faculty of Engineering, Universitas Sebelas Maret, (Chair)
- 2. Professor Dr. Cucuk Nur Rosyidi, S.T., M.T., Department of Industrial Engineering, Universitas Sebelas Maret,
- 3. Dr. Muhammad Abid, Ghulam Ishaq Khan Institute of Engineering Sciences & Technology, Pakistan,
- 4. Dr. Olufemi Adetunji, University of Pretoria, South Africa,
- 5. Dr. Umar AL-Turki, King Fahd University of Petroleum and Minerals, Saudi Arabia,
- 6. Dr. Ronald G. Askin, Arizona State University, USA,
- 7. Dr. Mohammed Ben-Daya, King Fahd University of Petroleum and Minerals, Saudi Arabia
- 8. Dr. Abdul Talib Bon, Universiti Tun Hussein Onn, Malaysia,
- 9. Dr. Raj Das, University of Auckland, New Zealand,
- 10. Dr. Kudret Demirli, Khalifa University, Abu Dhabi, UAE,
- 11. Dr. Jose Arturo Garza-Reyes, University of Derby, UK,
- 12. Dr. Alireza Ghasemi, Dalhousie University, Halifax, NS, Canada,
- 13. Dr. Moncer Abdelhamid Hariga, American University of Sharjah, United Arab Emirates
- 14. Dr. Mohammad D. Al-Tahat, The University of Jordan, Amman, Jordan,
- 15. Dr. Arun Kumar, Royal Melbourne Institute of Technology (RMIT) University, Australia
- 16. Dr. Jay Lee, University of Cincinnati, USA,
- 17. Dr. Abu Masud, Wichita State University, Kansas, USA,
- 18. Dr. Charles Mbohwa, University of Johannesburg, South Africa,
- 19. Dr. Samar Mukhopadhyay, UWM, Milwauee, WI, USA
- 20. Dr. Nor Hasni Osman, Universiti Utara Malaysia,
- 21. Dr. Leonard Perry, University of San Diego, USA,
- 22. Dr. Ho Thanh Phong, International University VNUHCM, Vietnam,
- 23. Dr. Yassine Ouazene, University of Technology of Troyes, France,
- 24. Dr. Abdur Rahim, University of New Brunswick, Canada,
- 25. Dr. Mehmet Savsar, Kuwait University, Safat, Kuwait,
- 26. Dr. Rapinder Sawhney, University of Tennessee Knoxville, USA,
- 27. Dr. Rosemary Seva, De La Salle University Manila, Philippines,
- 28. Dr. Devdas Shetty, University of Hartford, Connecticut, USA,
- 29. Dr. Hamid Seifoddini, University of Wisconsin-Milwaukee, USA,
- 30. Dr. Masine Md. Tap, Universiti Teknologi Malaysia,
- 31. Dr. Zulkifli Mohamed Udin, Universiti Utara Malaysia,
- 32. Dr. Alok Verma, Old Dominion University, Norfolk, Virginia, USA,
- 33. Dr. Venkata Seshachala Sarma Yadavalli, University of Pretoria, South Africa,
- 34. Dr. Hari Agung Yuniarto, Universitas Gadjah Mada, Indonesia
- 35. Dr. Li Zheng, Tsinghua University, China,
- 36. Dr. Henk Zijm, Dutch Institute for Advanced Logistics, University of Twente, Netherlands
- 37. Dr. Devashis Mitra, Dean Faculty of Business Administration, University of New Brunswick, Fredericton, Canada.
- 38. Dr. Hamidi Bashir, Chairperson, Department of Industrial and Engineering Management, University of Sharjah, UAE,
- 39. Dr. Hesham Kamal Al-Fares, King Fahd University of Petroleum and Minerals, Saudi Arabia,
- 40. Dr. Khaled S. Al-Sultan, King Fahd University of Petroleum and Minerals, Saudi Arabia,
- 41. Dr. Mohamed Essaaidi, Professor and Director (Dean), ENSIAS College of Engineering Mohamed V University in Rabat, Morocco,
- 42. Ir. Lim Chye Ing, PhD, MSc, BEng, PEng, MIEM, PMP, Curtin University, Malaysia,
- 43. Dr. Ir. H. A. Dirgahayu Lantara, MT, IPU, Department of Industrial Engineering, Universitas Muslim Indonesia, Makassar, Indonesia,
- 44. Dr. Heri Setiawan, S.T., M.T., Department of Industrial Engineering, Universitas Katolik Musi Charitas
- 45. Dr. Ir. Eduart Wolok, ST, MT, Department of Industrial Engineering, Universitas Negeri Gorontalo, Indonesia,

GLOBAL ENGINEERING EDUCATION COMMITTEE

- 1. Assoc. Prof. Dr Syed Ahmad Helmi Syed Hassan, Associate Fellow, Center for Engineering Education (CEE), Universiti Teknologi Malaysia (Chair),
- 2. Dr. Abu Masud, Wichita State University, Kansas, USA (Co-Chair),
- 3. Dr. Hamid Parsaei, Texas A&M University (College Station) and Texas A&M University, Qatar (Co-Chair),
- 4. Dr. Jafri Mohd Rohani, Universiti Teknologi Malaysia,
- 5. Dr. Grace Kanakana of Tshwane University of Technology, Pretoria, South Africa,
- 6. Dr. Achmad Basuki, ST., MT, Civil Engineering Department, Universitas Sebelas Maret,
- 7. Dr. Yosafat Winarto, ST, MT, Architecture Department, Universitas Sebelas Maret,
- 8. Dr. Muh. Hisjam, STP, MT, Industrial Engineeng Department, Universitas Sebelas Maret,
- 9. Fitrian Imaduddin, S.T., M.Sc., Ph.D, Mechanidal Engineering Department, Univesitas Sebelas Maret
- 10. Dr. Joko Waluyo, ST., MT, Chemical Engineering Department, Universitas Sebelas Maret,
- 11. RR. Ratri Werdiningtyas, S.T., M.T., Ph.D, Regional Urban Planinning Department, Universitas Sebelas Maret,
- 12. Dr. Eng Faisal Rahutomo, ST., M.Kom. Electrical Engineering Department, Universitas Sebelas Maret

PROGRAM COMMITTEE

- 1. Dr. Ahad Ali, Director, Bachelor of Science in Industrial Engineering (BSIE); Director, Master of Science in Industrial Engineering (MSIE); Director, Smart Manufacturing and Lean Systems Research Group (Chair),
- 2. Dr. Eng. Boby Kurniawan, ST, MT, Department of Industrial Engineering, Universitas Sultan Ageng Tirtayasa, Serang, Indonesia,
- 3. Dr. Carles Sitompul, S.T., M.T., M.I.M., Department of Industrial Engineering, Universitas Parahyangan, Bandung, Indonesia,
- 4. Dr. Dwi Kurniawan, ST, MT, Department of Industrial Engineering, Institut Teknologi Nasional, Bandung, Indonesia,
- 5. Dr. M. Khadem, Sultan Qaboos University, Muscat, Oman,
- 6. Dr. Abdul Talib Bon, Universiti Tun Hussein Onn Malaysia
- 7. Dr. Rushan Ziatdinov, Department of Industrial & Management Engineering, Keimyung University, Daegu, South Korea.
- 8. Dr. Lina Aboueljinane, Industrial Engineering Program, École Nationale Supérieure des Mines de Rabat (ENSMR), Morocco.
- 9. Dr. Bouloiz Hafida, Industrial Engineering Department, National School of Applied Sciences (ENSA), Ibn Zohr University, Agadir, Morocco,
- 10. Dr. Jaouad Boukachour, Université Le Havre, France.
- 11. Dr. Denni Kurniawan, Universiti Teknologi Brunei, Brunei Darussalam
- 12. Dr. Norizah Bt Hj Redzuan, PhD, Universiti Teknologi Malaysia, Malaysia

Industry Solutions Committee

- $1.\ Dr.\ Ahmad\ Syamil,\ CFPIM,\ CIRM,\ CSCP,\ Dean\ of\ Binus\ Business\ School,\ Bina\ Nusantara\ University,\ Jakarta,$
- 2. Dr. Ir. Zaenal Muttaqien, SE., S.Pd., MT., IPM, AER, The board of industrial engineering chapter the institute of Indonesian engineers (BKTI-PII), Department of Industrial Engineering, Universitas Jenderal Achmad Yani, Bandung, Indonesia,
- 3. Dr. Basuki Rahmad, ST, MT, CEO PT. Transforma Engineering & Solutions; Telkom University, Bandung, Indonesia,
- 4. Dr. Anwar Hossain, Daikin Applied, Minneapolis, Minnesota, USA,
- 5. Ihfasuziella Ibrahim, Construction Research Institute of Malaysia (CREAM)
- 6. German Moya, President at IEEE Costa Rica Section, Costa Rica,
- 7. Rina Wiji Astuti , ST, MT, CEO PT. Batex Energi Mandiri, Surakarta, Indonesia
- 8. Dr. Susanto Sudiro, PT Mega Andalan Kalasan, Yogyakarta, Indonesia.

- 1. Prof. Nilda Tri Putri, S.T., M.T., Ph.D, Deparment of Industrial Engineering, Universitas Andalas, Padang, Indonesia,
- 2. Dr. Ir. Tiena G. Amran, IPU, AER, The board of industrial engineering chapter the institute of Indonesian engineers (BKTI-PII), Department of Industrial Engineering, Universitas Trisaksi, Jakarta, Indonesia,
- 3. Dr. Adibah Shuib, Faculty of Computer and Mathematical Sciences, Universiti Teknologi MARA, Malaysia,
- 4. Dr. Chan Chee-Ming, Associate Professor and Deputy Dean (Academic and Research), Universiti Tun Hussein Onn Malaysia,
- 5. Dr. Ellysa Nursanti, ST, MT, Institut Teknologi Nasional, Malang, Indonesia,
- 6. Dr. Funda Sivrikaya Şerifoğlu, Bilgi University, Istanbul, Turkey,
- 7. Dr. Ilham Kissani, Faulty of Engineering & Management Science, Al Akhawayn University, Ifrane, Morocco,
- 8. Dr. Mey Goh, Assoc Professor in Product Design, Loughborough University, UK,
- 9. Dr. Naniek Utami Handayani, S.Si, MT, Department of Industrial Engineering, Universitas Diponegoro, Semarang, Indonesia
- 10. Dr. Vanajah Siva, Chalmers University, Sweden,
- 11. Ir. Bertha Maya Sopha, S.T., M.Sc., Ph.D., IPM, ASEAN Eng., Universitas Gadjah Mada (UGM), Yogyakarta, Indonesia,
- 12. Prof. Soumaya Yacout, École Polytechnique de Montréal, Canada,

TECHNICAL COMMITTEE / REVIEWERS

- Dr. Javad Khamisabadi, Islamic Azad University, Tehran, Iran,
- Dr. A.O. Adewumi, University of KwaZulu-Natal, South Africa,
- Dr. Abdelaziz Berrado, The Ecole Mohammadia d'Ingénieurs (EMI), Rabat, Morocco
- Dr. Aidin Delgoshaei, Industrial Engineering Department, Kharazmi University, Tehran, Iran
- Dr. Abderrahmane Mellak, University of Boumerdes, Algeria,
- Dr. Abdollah Aghaie, K.N. Toosi University of Technology, Iran,
- Dr. Abdul-Rahman Al-Ali, American University of Sharjah, United Arab Emirates,
- Dr. Abdussalam Shibani, Coventry University, UK,
- Dr. Ahmed Kadhim Hussein, Babylon University, Iraq,
- Dr. Amir Azizi, Universiti Malaysia Pahang, Malaysia,
- Dr. Andi Cakravastia, ST, MT, Institut Teknologi Bandung, Indonesia,
- Dr. Anwar, Universitas Malikussaleh, Aceh, Indonesia,
- Dr. Arun N. Nambiar, California State University Fresno, USA,
- Dr. Balan Sundarakani, University of Wollongong in Dubai, UAE,
- Dr. Behnam Bahrami, Eastern Mediterranean University, Famagusta, Cyprus,
- Dr. Bhuvenesh Rajamony, University Malaysia Perlis (UniMAP), Malaysia,
- Dr. Brigitte Jaumard, Concordia University, Canada,
- Dr. Carles Sitompul, S.T., M.T., M.I.M., Universitas Parahyangan, Bandung, Indonesia.
- Dr. Cecilia Nembou, Divine Word University, Papua New Guinea,
- Dr. Faieza Abdul Aziz, Universiti Putra Malaysia, Selangor, Malaysia,
- Dr. Fernando González Aleu, Departamento de Ingeniería, Universidad de Monterrey, Mexico,
- Dr. Francis Leung, City University of Hong Kong, China,
- Dr. Fulufhelo Masithulela, University of South Africa, Johannesburg, South Africa,
- Dr. Gopalan Srinivasan, University of New Brunswick, Canada,
- Dr. Haider Ali Biswas, Khulna University, Bangladesh,
- Dr. Hui-Ming Wee, Chung Yuan Christian University, Taiwan,
- Dr. Indra Gunawan, The University of Adelaide, Australia,
- Dr. Ing. Novie Susanto, ST, M. Eng, Universitas Diponegoro, Indonesia,
- Dr. Ir. Rakhma Oktavina, MT, Universitas Gunadarma,
- Dr. Ir. Rosnani Ginting, MT, Universitas Sumatera Utara, Medan, Indonesia,
- Dr. Jahara bint Ghani, UKM, Malaysia,
- Dr. Jayakanth Srinivasan, MIT Sloan School of Management,
- Dr. Kannan Govindan, University of Southern Denmark, Denmark,
- Dr. Kondo H. Adjallah, Paul-Verlaine University, France
- Dr. Lamto Widodo, ST., MT, Universitas Tarumanegara, Jakarta, Indonesia
- Dr. Linda L. Zhang, IESEG School of Management, Lille-Paris, France,
- Dr. Mahdi Bashiri, Shahed University, Iran
- Dr. Mahmood Shafiee, Cranfield University, Bedfordshire, United Kingdom

- Dr. Maruf Hasan, University of New South Wales, Australia
- Dr. Md. Abdus Samad Kamal, Gunma University, Kiryu, Japan
- Dr. Md. Mamun Habib, Independent University, Bangladesh
- Dr. Md. Mizanur Rahman, Universiti Malaysia Sabah (UMS), Kota Kinabalu, Sabah, Malaysia,
- Dr. Mehran Doulat, Center for Quality and Sustainability, School of Engineering and Advanced Technology, UTM Kuala Lumpur, Malaysia.
- Dr. Meilita Tryana Sembiring, ST, MT, Universitas Sumatera Utara, Medan, Indonesia
- Dr. Michael Mutingi, University of Botswana, Botswana
- Dr. Miguel Sanz Bobi, Comillas Pontifical University, Spain
- Dr. Mohammad Ishak Desa, Universiti Teknologi Malaysia, Johor Bahru, Malaysia
- Dr. Mohd Abdur Rashid, University Malaysia Perlis (UniMAP), Malaysia,
- Dr. Murat Caner Testik, Hacettepe University, Ankara, Turkey,
- Dr. Nani Kurniati, Institute of Technology Sepuluh Nopember (ITS), Surabaya, East Java, Indonesia
- Dr. Naniek Utami Handayani, S.Si, MT, Universitas Diponegoro, Semarang, Indonesia.
- Dr. Nejib Chouaibi, Polytechnic School of Tunisia, Tunisia,
- Dr. Norhamidi Muhamad, UKM, Malaysia,
- Dr. Norzaidahwati Zaidin, Universiti Teknologi Malaysia, Johor, Malaysia,
- Dr. Nubia Milena Velasco Rodriguez, Universidad de Los Andes, Colombia,
- Dr. Omar Elmabrouk, Benghazi University, Libya,
- Dr. P. Sanjeevikumar, CTiF Global Capsule, Aarhus University, Denmark
- Dr. Raja Kothandaraman, Alpha College of Engineering, Chennai, Tamilnadu, India,
- Dr. Raja Zuraidah Raja Mohd Rasi, Universiti Tun Hussein Onn Malaysia,
- Dr. Ramy Harik, University of South Carolina, USA,
- Dr. Rashmi Jha, Gitarattan International Business School (GIBS), Affiliated to Guru Gobind Singh Indraprastha University, New Delhi, India.
- Dr. Ratri Parida, National Institute of Construction Management and Research (NICMAR), Pune, Maharashtra, India,
- Dr. Ravi Gor, St. Kabir Institute of Professional Studies, Ahmedabad, India,
- Dr. Rina Fitriana, ST, MM, IPM, Department of Industrial Engineering, Universitas Trisakti, Indonesia
- Dr. Rodrigo Garrido, Universidad Adolfo Ibaez, Chile,
- Dr. Ruchi Mishra, Institute of Management, Nirma University, Ahmedabad, India,
- Dr. Salah Haridy, Department of Industrial Engineering and Engineering Management, University of Sharjah, Sharjah,
 UAE.
- Dr. Sarbjit Singh, National Institute of Technology, Jalandhar, Punjab, India,
- Dr. Sawat Pararach, Thammasat University, Thailand,
- Dr. Shahrul B. Kamaruddin, Universiti Sains Malaysia,
- Dr. Shahryar Sorooshian, University Malaysia Pahang, Malaysia,
- Dr. Suat Kasap, Industrial Engineering, American University of the Middle East, Kuwait,
- Dr. Suhaiza Hanim Zailani, University Malaya, Malaysia,
- Dr. Syed Asif Raza, Qatar University, Qatar,
- Dr. T. Ramayah, School of Management, Universiti Sains Malaysia,
- Dr. Tanika D Sofianti, Industrial Engineering Dept., Engineering Faculty, Swiss German University BSD City Kav.
 Tangerang, Banten, Indonesia,
- Dr. Theodore B. Trafalis, University of Oklahoma, USA,
- Dr. Titah Yudhistira, ST, MT, Institut Teknologi Bandung, Indonesia,
- Dr. Vassilis Gerogiannis, Department of Project Management, Greece
- Dr. Vladimir Beresnev, Sobolev Institute of Mathematics, Russia
- Dr. Vladimir I. Tsurkov, Russian Academy of Sciences, Moscow, Russia,
- Dr. Vladimir Modrak, TUKE, Slovakia
- Dr. Yong Yin, Yamagata University, Japan
- Dr. Yosi Agustina Hidayat, ST, MT, Institut Teknologi Bandung, Indonesia
- Dr. Yuan Xue Ming, SIMTech: Singapore Institute of Manufacturing Technology, Singapore
- Dr. Zuraidah Sulaiman, Universiti Teknologi Malaysia (UTM), Johor, Malaysia
- Dr. D. K. Banwet, IIT-Delhi, India
- Eko Setiawan, ST, MT, Ph.D, Universitas Muhammadiyah Surakarta,
- Jonrinaldi, ST, MT, Ph.D, Universitas Andalas, Padang, Indonesia,
- Markus Hartono, S.T., M.Sc., Ph.D, CHFP, Universitas Surabaya, Indonesia
- Nurhadi Siswanto, S.T., MSIE., Ph.D, Institut Teknologi Sepuluh November, Surabaya, Indonesia

- Prof. Dr. Anand Kumar, M.S. Engineering College, Bangalore Karnataka, India
- Dr. Taufiq Immawan, S.T., M.M., Department of Industrial Engineering, Universitas Islam Indonesia, Yogyakarta,
- Dr. Ir. Halim Mahfud, M.Sc, Department of Industrial Engineering, UPN Veteraran Jakarta, Indonesia
- Yun Arifatul Fatimah, M.T., Ph.D., Department of Industrial Engineering, Universitas Muhammadiyah Magelang, Indonesia, Yogyakarta, Indonesia
- Andi Sudiarso, S.T., M.T., M.Sc., Ph.D. Universitas Gadjah Mada (UGM), Yogyakarta, Indonesia
- Dr. Arian Dhini, ST, MT., Department of Industrial Engineering Universitas Indonesia
- Dr.Eng. Ir. Irma Nur Afiah, ST.,MT.,IPM.,ASEAN Eng. Department of Industrial Engineering, Universitas Muslim Indonesia, Makassar, Indonesia
- Dr. Wahyuda, ST, MT, Department of Industrial Engineering, Universitas Mulawarman
- Dr. Ir. Adrian Nur, S.T., M.T., University Centre of Excellence for Electrical Energy Storage Technology, Universitas Sebelas Maret, Surakarta, Indonesia
- Dr. Eng. Hendri Widyandari, S.Si., M.Si., University Centre of Excellence for Electrical Energy Storage Technology,
 Universitas Sebelas Maret, Surakarta, Indonesia
- Retno Tanding Suryandari, Ph.D., Master in Management (MM) Study Program, Universitas Sebelas Maret, Surakarta, Indonesia
- Didiek Sri Wiyono, ST, MT, Ph.D, Department Computer Science, Universitas Sebelas Maret, Surakarta, Indonesia
- Dr. Fethma M Nor, Department of Mechanical Engineering, Curtin University, Malaysia
- Assoc. Prof. Ts. Dr. Muhammad Azizi Mat Yajid, Director (Materials, Manufacturing & Industrial Engineering, Universiti Teknologi Malaysia, Malaysia
- Dr. Auditya Purwandini Sutarto, S.T., M.Si., Department of Industrial Engineering, University of Qomaruddin Gresik,
 Indonesia
- Dr. Leo Aldianto MBA, MSAE , School of Business and Management, Institut Teknologi Bandung, Indonesia
- Abroon Qazi, Ph.D., Fellow Society of Actuaries | Chartered Enterprise Risk Analyst, Assistant Professor, Department
 of Marketing & Information Systems, School of Business Administration (AACSB accredited), American University of
 Sharjah, PO Box 26666, Sharjah, United Arab Emirates

TRACK CHAIRS

Artificial Intelligence

- Winda Nur Cahya, S.T., M.Sc., Ph.D, Head of Magister Industrial Engineering, Universitas Islam Indonesia
- Dr. Mohd Helmy Abd Wahab, Universiti Tun Hussein Onn Malaysia, Batu Pahat, Johor, Malaysia

Automation and Control

- Dr. Evizal Abdul kadir ST, M.Eng, Universitas Islam Riau, Pekan Baru, Indonesia
- Dr. Rajab Abdullah Hokoma, University of Tripoli, Libya

Business Management

- Retno Tanding Suryandari, Ph.D., Master in Management (MM) Study Program, Universitas Sebelas Maret, Surakarta, Indonesia
- Dr. Sawarni Hasibuan, School of Industrial Engineering, Mercu Buana University, West Java, Indonesia,
- Dr. Shekar Babu, AMRITA School of Business, Bangalore, India

Case Studies

- Dr. Norizah Bt Hj Redzuan, PhD, Universiti Teknologi Malaysia, Malaysia
- Dr. Javad Feizabadi, MIT Global SCALE Network in Asia- Malaysia Institute for Supply Chain Innovation

Cyber Security

Dr. Tanika Dewi Sofianti, S.T., M.T., Swiss German University, Tanggarang, Indonesia

Computers and Computing

• Prof. Dr. Anand Kumar, M.S. Engineering College, Bangalore Karnataka, India

Construction Management

• Hossam Hassaan, University of Alexandria, Alexandria, Egypt

Data Analytics

Dr. Norzaidahwati Zaidin, Univeristy Technology Malaysia (UTM)

Decision Sciences

- Nur Aini Masruroh, ST., M.Sc., Ph.D, Department of Industrial Engineering, Universitas Gadjah Mada (UGM), Yogyakarta, Indonesia,
- Dr. Samrad Jafarian-Namin, Industrial Engineering Department, Yazd University, Yazd, Iran

Defense Management Science

- Dr. Jupriyanto, ST, MT, IPU, Defense Industry Study Program, Indonesia Defence University,
- Mejar Wong Wai Loong, National Defence University of Malaysia

E-Business and E-Commerce

- Didiek Sri Wiyono, ST, MT, Ph.D, Department Computer Science, Universitas Sebelas Maret, Surakarta, Indonesia
- Dr. Christoph Wunck, Jade University, Wilhelmshaven, Germany

Energy

- Dr. Lamto Widodo, ST., MT, Universitas Tarumanegara, Jakarta, Indonesia,
- Dr. Md. Mizanur Rahman, University Technology Malaysia (UTM), Johor Bahru, Malaysia
- Dr. Ir. Endah Retno Dyartanti, M.T., Universitas Sebelas Maret, Surakarta, Indonesia,

Engineering Economy

Dr. Ali Mostafaeipour, Yazd University, Yazd, Iran

Engineering Education

- Dr. Chee-Ming Chan, Universiti Tun Hussein Onn Malaysia, Batu Pahat, Johor, Malaysia
- Dr. Peter Toth, Trefort Agoston Centre for Engineering Education. Obuda University, Hungary

Engineering Management

- Dr. Taufiq Immawan, S.T., M.M., Department of Industrial Engineering, Universitas Islam Indonesia, Yogyakarta,
 Indonesia
- Dr. Mehran Doulat. University of Wollongong, Wollongong, NSW, Australia

Entrepreneurship and Innovation

- Dr. Anugerah Widiyanto, B.Sc., M.Eng, Agency for the Assessment and Application of Technology, Serpong, Indonesia,
- Dr. Indra Gunawan, The University of Adelaide, Australia,

Facilities Planning and Management

Dr. Zeki Ayağ, Kadir Has University, Turkey,

Dr. Dra. Amelia Santoso M.T.. Head of Master Program in Industrial Engineering, Universitas Surabaya, Surabaya,
 Indonesia

Financial Engineering

- Dr. Titah Yudhistira, ST, MT, Institut Teknologi Bandung, Indonesia,
- Dr. Kamilah Ahmad, Universiti Tun Hussein Onn Malaysia
- S.M. Tofayel Ahmad, Bangladesh Bank, Motijheel, Dhaka, Bangladesh

Healthcare Systems

• Dr. Farzad Firouzi Jahantigh, Department of Industrial Engineering, Faculty of Engineering, University of Sistan and Baluchistan, Zahedan, Iran

Human Factors and Ergonomics

- Dr. Ing. Novie Susanto, ST, M. Eng, Department of Industrial Engineering, Universitas Diponegoro,
- Dr. Auditya Purwandini Sutarto, S.T., M.Si., Department of Industrial Engineering, University of Qomaruddin Gresik, Indonesia

IE / OM in Asia

- Ir. Bertha Maya Sopha, S.T., M.Sc., Ph.D., IPM, ASEAN Eng., The Indonesian Association of Industrial Engineering Higher Education Institution, FY 2020-2023
- Assoc. Prof. Dr. Adnan Hassan, University of Technology, Malaysia

Information Technology and Information Systems

 Dr. Azizah Yusof, Department of Educational Technology and Creative Multimedia, University Technology Malaysia (UTM), Johor Bahru, Malaysia

Inventory Management

- Jonrinaldi, ST, MT, Ph.D, Universitas Andalas, Padang, Indonesia,
- Dr. Salvatore Miranda, University of Salerno, Italy

Lean and Six Sigma

- Prof. Nilda Tri Putri, S.T., M.T., Ph.D., Department of Industrial Engineering, Universitas Andalas, Padang, Indonesia,
- Dr. Bernardo Villarreal, Universidad de Monterrey, Mexico
- Edly Ramly, Lean Six Sigma Master Black Belt, EFR Certification, Malaysia

Logistics Management

• Ketut Gita Ayu, Industrial Engineering Department, Bina Nusantara University, Jakarta, Indonesia

Manufacturing and Design

- Andi Sudiarso, S.T., M.T., M.Sc., Ph.D. Universitas Gadjah Mada (UGM), Yogyakarta, Indonesia,
- Dr. Ir. Rosnani Ginting, MT, Universitas Sumatera Utara, Medan, Indonesia

Material Flow Cost Accounting (MFCA)

Dr. Wichai Chattinnawat, Chiang Mai University, Thailand

Modeling and Simulation

• Professor Dr. Cucuk Nur Rosyidi, S.T., M.T., Department of Industrial Engineering, Universitas Sebelas Maret,

- Dr. Ali ElKamel, University of Waterloo, Canada,
- Dr. Magdy Helal, American University of the Middle East (AUM), Kuwait

Occupational Safety and Health (OSH)

- Ardiyanto, ST., M.Sc., Ph.D., AEP, Universitas Gadjah Mada (UGM), Yogyakarta, Indonesia
- Dr. Jafri Mohd Rohani, Universiti Teknologi Malaysia

Operations Management

- Dr. Eng. Boby Kurniawan, ST, MT, Department of Industrial Engineering, Universitas Sultan Ageng Tirtayasa, Serang, Indonesia,
- Dr. Youssef Boulaksil, United Arab Emirates University, Al Ain, UAE
- Dr. Fernando González Aleu, Departamento de Ingeniería, Universidad de Monterrey, Mexico

Operations Research

- Dr. Carles Sitompul, S.T., M.T., M.I.M., Department of Industrial Engineering, Universitas Parahyangan, Bandung, Indonesia
- Dr. Michael Mutingi, National University of Science and Technology, Windhoek, Namibia

Product Lifecycle Management

- Dr. -Ing. Amalia Suzianti S.T., M.Sc.; Department of Industrial Engineering, Universitas Indonesia,
- Dr. Ali Allah Verdi, Kuwait University, Kuwait

Production Planning and Management

- Dr. Dwi Kurniawan, ST, MT, Department of Industrial Engineering, Institut Teknologi Nasional, Bandung, Indonesia,
- Dr. Gede Agus Widyadana, Petra Christian University, Indonesia

Project Management

Dr. Ammar Aamer, Sampoerna University, Jakarta, Indonesia

Quality Control and Management

- Dr. Ellysa Nursanti, ST, MT, Institut Teknologi Nasional, Malang, Indonesia,
- Dr. Nani Kurniati, Institute of Technology Sepuluh Nopember (ITS), Surabaya, East Java, Indonesia

Reliability and Maintenance

- Dr. Dra. Hennie Husniah, M.T., Dean, Faculty of Engineering, Langlangbuana University, Bandung, Indonesia
- Dr.-Ing. Zied Hajej, Université de Lorraine, France
- Dr. Gajanand Gupta, VIT Chennai, Tamil Nadu

Sensors and Sensing Systems

• Dr. Shahrul Kamaruddin, Universiti Teknologi Petronas, Malaysia

Service Systems and Service Management

• Dr. Kannapha Amaruchkul, National Institute of Development Administration, Thailand

Software Testing and Quality Assurance

• Dr. Hari Agung Yuniarto, Universitas Gadjah Mada, Indonesia,

Statistics and Optimization

- Dr. Titah Yudhistira, ST, MT, Institut Teknologi Bandung, Indonesia,
- Dr. Bhavin J. Shah, Indian Institute of Management Indore, Madhya Pradesh, India

Supply Chain Management

- Dwi Agustina Kurniawati, S.T., M.Eng., Ph.D, Department of Industrial Engineering, Universitas Islam Negeri Sunan Kalijaga, Yogyakarta, Indonesia
- Dr. Shao Hung Goh, Singapore Institute of Management (SIM) University, Singapore
- Assoc Prof Ts. Dr. Norhayati Zakuan, Director Business Administration, Azman Hashim International Business School,
 Universiti Teknologi Malaysia

Sustainability in Supply Chain, Enterprise Operations and Strategies including Food Supply Chain

- Gusti Fauza, S.T., M.T., Ph.D., Food Technology Study Program, Universitas Sebelas Maret, Indonesia,
- Prof. Jose Arturo Garza-Reyes, Derby Business School, University of Derby, UK
- Dr. Vikas Kumar, Bristol Business School, University of the West of England, UK

Sustainability and Green Systems

- Dr. Wahyuda, ST, MT, Department of Industrial Engineering, Universitas Mulawarman
- Dr. Eng. R.B. Seno Wulung, Politeknik ATK Yogyakarta, Indonesia,
- Dr. Asela K. Kulatunga, University of Peradeniya, Sri Lanka,

Sustainable Manufacturing

- Yun Arifatul Fatimah, M.T., Ph.D., Department of Industrial Engineering, Universitas Muhammadiyah Magelang, Indonesia, Yogyakarta, Indonesia
- Dr. Habibah Norehan Hj Haron, UTM Razak School of Engineering and Advanced Technology, Universiti Teknologi Malaysia

Systems Engineering

Dr. Norzelawati Asmuin, Universiti Tun Hussein Onn Malaysia (UTHM)

Technology Management

- Dr. Alina Shamsuddin, Universiti Tun Hussein Onn Malaysia
- Dr. Leo Aldianto MBA, MSAE, School of Business and Management, Institut Teknologi Bandung, Indonesia
- Dr. Norizah Mohamad, Universiti Sains Malaysia, Engineering Campus, Pulau Pinang, Malaysia

Total Quality Management (TQM)

- Dr. Salah Haridy, Department of Industrial Engineering and Engineering Management, University of Sharjah, Sharjah,
 UAE
- Dr. M. Shamsuzzaman, Department of Industrial Engineering and Engineering Management, University of Sharjah, Sharjah, UAE

Transportation and Traffic

■ Dr. Abbas Mahmoudabadi, Mehrastan University, Gilan, Iran

Work Design, Measurement, Standardization and ISO

Dr. Yunos Ngadiman, Universiti Tun Hussein Onn Malaysia









Home Authors Program Registration Committee Competitions Keynote Global Engineering Education SCM Industry 4.0 Panels

Sponsors

Proceedings

Proceedings

ISSN: 2169-8767 (U.S. Library of Congress) **ISBN:** 978-1-7923-6129-6

Papers will be added in the IEOM Index Publication Database, Full papers will be indexed in EBSCO.

ID 002 Managing the Crisis Condition in SMEs: A case study during the Covid-19 in West Java, Indonesia

Iston Dwija Utama, Nur Azmi Karim, Rudy Aryanto, and Dian Kurnianingrum, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Bandung, West Java 40181, Indonesia

Meiliani Luckieta, Accounting Department, Harapan Bangsa Business School, Bandung, West Java 40132, Indonesia

ID 003 Using Association Rule to Analyze Hypermarket Customer Purchase Patterns

Ivan Diryana Sudirman, Ronny Samsul Bahri, Iston Dwija Utama, Chyntia Ika Ratnapuri, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Bandung, West Java, 40181, Indonesia

ID 004 Comparing the Relationship of Tourist Attraction by Using Association Rule

Ivan Diryana Sudirman, Dimas Yudistira Nugraha, Iston Dwija Utama, Tjia Fie Tjoe, Entrepreneurship Department, BINUS Business School, Undergraduate Program, Bina Nusantara University, Bandung, West Java, 40181, Indonesia

ID 005 Green Product Purchase Intention in Emerging Country: An UTAUT-2 Adoption

Ivan Diryana Sudirman, Doni Purnama Alamsyah, Okky Rizkia Yustian, Iston Dwija Utama, Mulyani, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Bandung Campus, Bandung, Indonesia, 40181

ID 006 Flowshop Production Scheduling Using Cds, Tabu Search And Genetic Algorithm (Case Studies: Cv. Mega Abadi)

Lina Gozali, Vania Eliyanti, Lamto Widodo, and Frans Jusuf Daywin, Industrial Engineering, Universitas Tarumanagara, Indonesia

Agustinus Purna Irawan, Mechanical Engineering, Universitas Tarumanagara, Indonesia

Harto Tanujaya, Industrial Engineering, Universitas Tarumanagara, Indonesia

Siti Rohana Nasution, Industrial Engineering, UPN Veteran, Jakarta, Indonesia

ID 008 The Implementation of Green Productivity for Plastic Manufacturer

Axel Fernaldy, Industrial Engineering Department, Faculty of Engineering, Bina Nusantara University, 11480 Jakarta, Indonesia

Taufik Roni Sahroni, Industrial Engineering Department, Faculty of Engineering, Bina Nusantara University, 11480 Jakarta, Indonesia

ID 009 Analysis of the Application of Circular Supply Chain in Beverage Packaging Industry

Zahrah Aulianti, Industrial Engineering Department, Faculty of Engineering, Bina Nusantara University, 11480 Jakarta, Indonesia

Taufik Roni Sahroni, Industrial Engineering Department, Faculty of Engineering, Bina Nusantara University, 11480 Jakarta, Indonesia

ID 010 The Components of Strategic Marketing and Its Importance to Achieving Organisational Goals

M. M. 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 011 The Remuneration of Chief Executive Officers (CEOs) of State-Owned Enterprises as a Current Corporate Governance Issue in Zimbabwe

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

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

ID 015 An Integrated Inventory Model with Electric Vehicles, Freight Costs, and Stochastic Lead-time

Ivan Darma Wangsa, Iwan Vanany, and Nurhadi Siswanto, Department of Industrial and Systems Engineering, Institut Teknologi Sepuluh, Nopember, Surabaya, Indonesia, Kampus ITS, Sukolilo, 60111, Indonesia

ID 016 Priority in TQM Process Using AHP Technique – A Case study of an EPC Organization

Kanesan Muthusamy, Shannen Darshini Surasan Nair, Joses Shem John David, and Elango Natarajan, Faculty of Engineering and Technology, UCSI University, 56000 Kuala Lumpur, Malaysia

ID 017 OSH Hazards Risk Assessment Using AHP Technique – A Case study of an Electronics Manufacturing Company

Kanesan Muthusamy, Joses Shem John David, Shannen Darshini Surasan Nair, and Nagesparan Ainarappan, Faculty of Engineering and Technology, UCSI, niversity, 56000 Kuala Lumpur, Malaysia

ID 020 Blockchain Application for Halal Integrity: Exploratory Study

Iwan Vanany and N.A. Nandya Shafira Pramesti, Department of Industrial and Systems Engineering, Institut Teknologi Sepuluh Nopember, Sukolilo, Surabaya, Indonesia

Nur Aini Rakhmawati, Department of Information System, Institut Teknologi Sepuluh Nopember, Sukolilo, Surabaya, Indonesia

Jan Mei Soon, University of Central Lancashire, Faculty of Health and Wellbeing, International Institute of Nutritional Sciences and Applied Food Safety Studies , Preston, United Kingdom

ID 021 Association Rules For Layout Design And Promotion Strategy

Anisa Aulia Majid and Cahyono Sigit Pramudyo, Industrial Engineering Department, Faculty of Science and Engineering, Universitas Islam Negeri Sunan Kalijaga, Yogyakarta, Indonesia

ID 022 The Impact of Big Data Analytics on Firm's Operational Performance: Mediating Role of Knowledge Management Process

Anas Iftikhar, Department of Economic Sciences, Università Del Salento, Lecce, Italy

Imran Ali, School of Business and Law, Central Queensland University, Australia

Adeel Shah, Institute of Business Management, Karachi, Pakistan

ID 023 A Field Study of Thermal Comfort in Indoor and Semi-Outdoor in Oil and Gas Company Semarang Indonesia

Ega Rizkiyah, Heru Prastawa, Ratna Purwaningsih, Novie Susanto, Manik Mahachandra, Faculty of Engineering, Diponegoro University, Semarang, Indonesia, Faculty of Public Health, Diponegoro University, Semarang, Indonesia

Daru Lestantyo, Faculty of Public Health, Diponegoro University, Semarang, Indonesia

Wiwik Budiawan, Department of Architecture and Civil Engineering, Toyohashi University of Technology, Japan

ID 024 Comparing Decision Tree and Artificial Neural Network Model in Predicting Bank Approval on Customer Credit

Puji Rahmawati, Aisyah Larasati, Industrial Engineering Department, State University of Malang, Malang, Indonesia

Marsono, Mechanical Engineering Department, State University of Malang, Malang, Indonesia

ID 025 Analyzing Social Media Marketing Strategies of Indonesian E-commerce using Text Mining Techniques

Raretha Maren, Aisyah Larasati, Industrial Engineering Department, State University of Malang, Malang, Indonesia

Retno Wulandari, Mechanical Engineering Department, State University of Malang, Malang, Indonesia

ID 026 Industry 4.0 Technologies and Sustainable Warehousing – A Systematic Literature Review

Minh Huy Phan, and Imran Ali, School of Business and Law, Central Queensland University, Melbourne, Australia

ID 027 Waste Minimization In A Concrete Block Company Using Lean Six Sigma, ECRS And Triz Methods

Paulino Gamboa, Department of Industrial and Systems Engineering, Institut Teknologi Sepuluh Nopember (ITS), Department of Industrial Engineering, Dili University (UNDIL)

Moses Laksono Singgih, Department of Industrial Engineering, Dili University (UNDIL)

ID 028 Supply Chain Performance Analysis Using Model Supply Chain Operations Reference (SCOR®) 11.0: A Case Study for Educating Engineering Student

Wahyudi Sutopo, University Centre of Excellence for Electrical Energy Storage Technology, Research Group Industrial Engineering and Techno-Economic, Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Jl. Ir. Sutami, 36 A, Surakarta, Indonesia

Anis Maisyaroh, Bachelor Program of Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Indonesia

Yuniaristanto, Laboratory of Logistics System and Business, Department of Industrial Engineering, Faculty of Engineering,

Universitas Sebelas Maret, Surakarta, Indonesia

ID 029 Parametric Cost Estimation Model for Li-ion Battery Pack of E-motorcycle Conversion based on Activity Based Costing

Sofi Desi Susanti, Bachelor Program of Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Indonesia

Wahyudi Sutopo, University Centre of Excellence for Electrical Energy Storage Technology, Research Group Industrial Engineering and Techno-Economic, Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Jl. Ir. Sutami, 36 A, Surakarta, Indonesia

Yuniaristanto, Laboratory of Logistics System and Business, Department of Industrial Engineering, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Indonesia

Rina Wiji Astuti, Chief Exceutive Officer of Start Up Technology PT Batex Energi Mandiri Surakarta, Indonesia

ID 030 Capital Budgeting Models for Investing The Utilization of Lithium Battery Products (Case Study: UNS Battery Factory)

Wahyudi Sutopo, University Centre of Excellence for Electrical Energy Storage Technology, Research Group Industrial Engineering and Techno-Economic, Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Jl. Ir. Sutami, 36 A, Surakarta, Indonesia

Adella Tasya Haryanto, Bachelor Program of Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Indonesia

Muhammad Hisjam, Laboratory of Logistics System and Business, Department of Industrial Engineering, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Indonesia

ID 031 Retail Shelf Space Allocation in Supply Chain Contracts: A Literature Review

Winda Narulidea, Ahmad Rusdiansyah, and Sri Gunani, Department of Industrial and Systems Engineering, Institut Teknologi Sepuluh Nopember Surabaya 60111, Indonesia

ID 032 Towards Sustainable Industrial Development - A Systems Thinking-Based Approach

Luis A. Mendoza-del Villar, and Eduardo Oliva-López, ESIME Zacatenco, Instituto Politécnico Nacional, Mexico City, Mexico

Octavio Luis-Pineda, ESE, Instituto Politécnico Nacional, Mexico City, Mexico

Jose Arturo Garza-Reyes, Centre for Supply Chain Improvement, University of Derby, Derby, UK

ID 039 Design for Manufacturing, Assembly, and Reliability on Product Redesign: Literature Review and Research Direction

Anda Iviana Juniani, Moses Laksono Singgih, and Putu Dana Karningsih, Department of Industrial and System Engineering, Institut Teknologi Sepuluh Nopember, Surabaya, Indonesia

ID 042 Container Ports' Performance and Logistics Costs: A Case Study in Indonesia

Reslyana Dwitasari, Irawati Andriani, Marlia Herwening, Suci Susanti, Masrono Yugihartiman, and Atik S Kuswati, Ministry of Transportation, Jakarta, Indonesia

Yandra Rahadian Perdana, Department of Industrial Engineering - Faculty of Science and Technology, Sunan Kalijaga State Islamic University, Yogyakarta, Indonesia

Murti Lestari, Department of Magister Management, Faculty of Business, Duta Wacana Christian, University, Yogyakarta, Indonesia

ID 044 Capacity Modeling for Marine Products Air Cargo Delivery from Indonesia

Timothy Rey Laheba, Department of Industrial Engineering, Faculty of Industrial Technology, Universitas Atma Jaya Yogyakarta, Yogyakarta, Indonesia

Paulus Wisnu Anggoro, Department of Industrial Engineering, Faculty of Industrial Technology, Universitas Atma Jaya Yogyakarta, Yogyakarta, Indonesia

ID 046 Risk Management on Quality Improvement Project: Literature Review and Bibliometric Analysis

Mokh Suef, and Moses Laksono Singgih, Department of Industrial and Systems Engineering, Institut Teknologi Sepuluh Nopember Surabaya, Indonesia,

Wiwik Sulistiyowati, Department of Industrial and Systems Engineering, Institut Teknologi Sepuluh Nopember Surabaya, Indonesia, Industrial Engineering Majoring, Universitas Muhammadiyah Sidoarjo, Sidoarjo, Indonesia

ID 048 Vehicle Routing Problem Using Sweep Algorithm for Determining Distribution Routes on Blood Transfusion Unit

Fitra Lestari, Muhammad Rizky, Muhammad Isnaini Hadiyul Umam and Fuspita Fitri Indriyani, Industrial Engineering Department, Faculty of Science and Technology, UIN Sultan Syarif kasim, Riau, Indonesia

ID 050 Recent Development and Future Research of Manufacturing Excellence: A Literature Review

Moses Laksono Singgih, Dessy Ahadian, Winda Puspitasari, Firdausy Anindita Ayudinda, Aida Aidil, Arventa Lukas Pranastya, Paulino Gamboa, Afrigh Fajar Rosyidiin, Hari Prasetyo, Department of Industrial and Systems Engineering, Institut Teknologi Sepuluh Nopember, ITS Campus, Keputih-Sukolilo, Surabaya-Indonesia

ID 051 Lesson Learned in Developing and Implementing Global Business Strategy in Food and Beverages Companies: A Comparative Study

Bukhori Muslim, Master Program of Industrial Engineering Department, Faculty of Engineering, Sebelas Maret University, Jl. Ir. Sutami, 36 A, Surakarta, Indonesia 57126, Department of Trade and Industry, Government of Pati Regency, Central Java Province, Jl. Raya Pati-Kudus No.Km. 4, Margorejo, Kec. Margorejo, Pati Regency, Central Java

Muhammad Hisjam, Laboratory of Logistics System and Business, Department of Industrial Engineering, Faculty of Engineering, Sebelas Maret University, Surakarta, Indonesia

Wahyudi Sutopo, University Center of Excellence for Electrical Energy Storage Technology, Research Group Industrial Engineering and Techno-Economic, Industrial Engineering Department, Faculty of Engineering, Sebelas Maret University, Jl. Ir. Sutami, 36 A, Surakarta, Indonesia

ID 053 Integration of Supply Chain Network Design Models and Payment Options for Evaluation Commercialization of Batik Wastewater Treatment Equipment

Nasyita Vivi Amalia, Master Program of Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Jl. Ir. Sutami, 36 A, Surakarta, Indonesia

Wahyudi Sutopo, University Centre of Excellence for Electrical Energy Storage Technology, Research Group Industrial, Engineering and Techno-Economic, Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Jl. Ir. Sutami, 36 A, Surakarta, Indonesia

Muhammad Hisjam, Laboratory of Logistics System and Business, Department of Industrial Engineering, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Indonesia

Bobby Kurniawan, Departemen of Industrial Engineering, Universitas Sultan Ageng Tirtayasa, Laboratory of Mechatronics and System Modeling

ID 054 A Location and Allocation Model in Determining Charging Station Facilities Using Facility Fixed and Variable Cost: A Case Study

Bekti Nugrahadi, Master Program of Industrial Engineering Department, Universitas Sebelas Maret, Surakarta, Indonesia

Wahyudi Sutopo, Professor, Department of Industrial Engineering, Past Head of Department of Industrial Engineering, Head of Industrial Engineering and Techno-Economics Research Group, Vice Dean for Human Resources, Finance, and Logistics, Faculty of Engineering, Universitas Sebelas Maret (UNS), Surakarta, Indonesia, President, IEOM Indonesia Chapter

Muhammad Hisjam, Department of Industrial Engineering, Head of Logistics and Business System Laboratory, Faculty of Engineering, Universitas Sebelas Maret (UNS), Surakarta, Indonesia

ID 055 Integration of Supply Chain Network Design and Warehouse Receipt System for a Cathode Material Factory Feasibility: A Case Study

Suryati, Master Program of Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Jl. Ir. Sutami, 36 A, Surakarta, Indonesia, Department of Trade and Industry, Government of Pati Regency, Central Java Province, Jl. Raya Pati-Kudus No.Km. 4, Margorejo, Kec. Margorejo, Kabupaten Pati, Jawa Tengah 59163

Muhammad Hisjam, Laboratory of Logistics System and Business, Department of Industrial, Engineering, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Indonesia

Wahyudi Sutopo, University Centre of Excellence for Electrical Energy Storage Technology, Research Group Industrial Engineering and Techno-Economic, Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Jl. Ir. Sutami, 36 A, Surakarta, Indonesia

Bobby Kurniawan, Departemen of Industrial Engineering, Universitas Sultan Ageng Tirtayasa 2)Laboratory of Mechatronics and System Modeling

ID 056 A Framework for Developing Technopreneurship and Innovation System: Comparative Study of the Development of Wastewater Treatment Machine Technology

Intan Pratiwi, Master Program of Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Indonesia

Wahyudi Sutopo, University Centre of Excellence for Electrical Energy Storage Technology, Research Group Industrial Engineering and Techno-Economic, Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Jl. Ir. Sutami, 36 A, Surakarta, Indonesia

Muhammad Hisjam, Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Indonesia

ID 057 Global Business Strategy for Commercialization of Wastewater Treatment Machine Technology: Lessons from the Trident Water System and Procon Water

Intan Pratiwi, Master Program of Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Indonesia

Wahyudi Sutopo, University Centre of Excellence for Electrical Energy Storage Technology, Research Group Industrial Engineering and Techno-Economic, Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Jl. Ir. Sutami, 36 A, Surakarta, Indonesia

Muhammad Hisjam, Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Indonesia

ID 058 Comparative Analysis of Global Business Strategies on Solar Cell Companies

Gilang Titah Ramadhan, Master Program of Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas

Maret, Surakarta, Indonesia

Wahyudi Sutopo, University Centre of Excellence for Electrical Energy Storage Technology, Research Group Industrial Engineering and Techno-Economic, Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Jl. Ir. Sutami, 36 A, Surakarta, Indonesia

Muhammad Hisjam, Laboratory of Logistics System and Business, Department of Industrial Engineering, Faculty of Engineering, Universita, Sebelas Maret, Surakarta, Indonesia

ID 059 Lessons Learned in Developing and Implementing a Global Business Strategy in Outdoor Gear Companies: A Comparative Study

Arga Seta Asmara Sakti, Master Program of Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret

Surakarta, Indonesia,

Wahyudi Sutopo, University Centre of Excellence for Electrical Energy Storage Technology, Research Group Industrial Engineering and Techno-Economic, Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Jl. Ir. Sutami, 36 A, Surakarta, Indonesia

Muhammad Hisjam, Department of Industrial Engineering, Sebelas Maret University, Surakarta, 57126, Indonesia

ID 060 Global Business Strategy in Electric Car Vehicle Industry: A Comparative Study between Tesla Inc. vs Rivian LLC

Dian Ahmad Pratama Bunayah Sudian, Master Program of Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret Surakarta, Indonesia

Wahyudi Sutopo, University Centre of Excellence for Electrical Energy Storage Technology, Research Group Industrial Engineering and Techno-Economic, Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Jl. Ir. Sutami, 36 A, Surakarta, Indonesia

Muhammad Hisjam, Laboratory of Logistics System and Business, Department of Industrial Engineering, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Indonesia

ID 061 Technological Innovation and Commercialization of Solar Tracker on Solar Cell: A Comparison Study

Gilang Titah Ramadhan, Master Program of Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Indonesia

Wahyudi Sutopo, University Centre of Excellence for Electrical Energy Storage Technology, Research Group Industrial Engineering and Techno-Economic, Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Jl. Ir. Sutami, 36 A, Surakarta, Indonesia

Muhammad Hisjam, Laboratory of Logistics System and Business, Department of Industrial Engineering, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Indonesia

ID 062 Lesson Learned in Comparative Analysis of Global Business Strategy to Commercialize Wi-Fi Router Technology

Her Tafga Arfanindita, Master Program of Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Indonesia

Wahyudi Sutopo, University Centre of Excellence for Electrical Energy Storage Technology, Research Group Industrial Engineering and Techno-Economic, Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Jl. Ir. Sutami, 36 A, Surakarta, Indonesia

Muhammad Hisjam, Laboratory of Logistics System and Business, Department of Industrial Engineering, Faculty of

Engineering, Universitas Sebelas Maret, Surakarta, Indonesia

ID 066 Optimization of Network Design for Charging Station of Electric Car with Center of Gravity Method: A Case Study

Dian Ahmad Pratama Bunayah Sudian, Silvi Istigomah

Master Program of Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret Surakarta, Indonesia

Wahyudi Sutopo, University Centre of Excellence for Electrical Energy Storage Technology, Research Group Industrial Engineering and Techno-Economic, Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Jl. Ir. Sutami, 36 A, Surakarta, Indonesia

Muhammad Hisjam, Laboratory of Logistics System and Business, Department of Industrial Engineering, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Indonesia

ID 067 Technopreneurship and Innovation System for Commercializing OpenWrt Router with Global System for Mobile Communication (GSM) Internet: A Case Study

Her Tafga Arfanindita, Master Program of Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Indonesia

Wahyudi Sutopo, University Centre of Excellence for Electrical Energy Storage Technology, Research Group Industrial Engineering and Techno-Economic, Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Jl. Ir. Sutami, 36 A, Surakarta, Indonesia

Muhammad Hisjam, Laboratory of Logistics System and Business, Department of Industrial Engineering, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Indonesia

ID 068 The Role of Technopreneurship and Innovation System for Commercializing Smart Backpack

Arga Seta Asmara Sakti, Master Program of Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Indonesia

Wahyudi Sutopo, University Centre of Excellence for Electrical Energy Storage Technology, Research Group Industrial Engineering and Techno-Economic, Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Jl. Ir. Sutami, 36 A, Surakarta, Indonesia

Muhammad Hisjam, Department of Industrial Engineering, Sebelas Maret University, Surakarta, 57126, Indonesia

ID 069 Implementation Strategy of Outcome-Based Education: A Case Study in Engineering Faculty Diponegoro University

Naniek Utami Handayani, Department of Industrial Engineering, Diponegoro University, Semarang 50275, Indonesia

Mochamad Agung Wibowo, Department of Civil Engineering, Diponegoro University, Semarang 50275, Indonesia

ID 070 Distribution Delivery Services of Ornamental Plant (in Malang Raya) by Developing and Implementing A Global Business Strategy: The Company J&T Express VS JNE Express

Maya Revanola Zainida, Department of Industrial Engineering, Faculty of Engineering, Universitas Sebelas Maret Surakarta, Indonesia

Wahyudi Sutopo, University Centre of Excellence for Electrical Energy Storage Technology, Research Group Industrial Engineering and Techno-Economic, Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Jl. Ir. Sutami, 36 A, Surakarta, Indonesia

Muhammad Hisjam, Laboratory of Logistics System and Business, Department of Industrial Engineering, Faculty of

Engineering, Universitas Sebelas Maret, Surakarta, Indonesia

ID 071 Determinant Factors of Innovation Strategies to Create Competitive Advantages in Batik SMEs

Naniek Utami Handayani, Zainal Fanani Rosyada, Rafli Ramadhani, Department of Industrial Engineering, Diponegoro University, Semarang, Indonesia

Anita Mustikasari, Department of Management, Yogyakarta State University, Yogyakarta 55281, Indonesia

ID 072 Consumers' Perception on Quality Service Delivery of Two Major Telecommunication Companies In Sierra Leone: A comparative study

Daniel Mao Mansaray, Master Program of Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Jl. Ir. Sutami, 36 A, Surakarta, Indonesia

Wahyudi Sutopo, University Centre of Excellence for Electrical Energy Storage Technology, Research Group Industrial Engineering and Techno-Economic, Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Jl. Ir. Sutami, 36 A, Surakarta, Indonesia

Muhammad Hisjam, Department of Industrial Engineering, Sebelas Maret University, Surakarta, 57126, Indonesia

ID 073 Locating a Cement Distribution Facility using the Centre of Gravity (COG) model: A Case Study

Daniel Mao Mansaray, Master Program of Industrial Engineering Department, Faculty of Engineering Universitas Sebelas Maret, Jl. Ir. Sutami, 36 A, Surakarta, Indonesia, Monitoring Evaluation and Learning Officer (MEAL) Officer at Action for Advocacy and Development-Sierra Leone a Non-Governmental Organization, Michael Street Makeni, Sierra Leone, West Africa

Wahyudi Sutopo, University Centre of Excellence for Electrical Energy Storage Technology, Research Group Industrial Engineering and Techno-Economic, Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Jl. Ir. Sutami, 36 A, Surakarta, Indonesia

Muhammad Hisjam, Department of Industrial Engineering, Sebelas Maret University, Surakarta, 57126, Indonesia

ID 074 Evaluating the Adequacy of Public Healthcare Centers in Yogyakarta City: A Simulation Study

Christian Mario, Bertha Maya Sopha, Industrial Engineering Program, Department of Mechanical and Industrial Engineering, Universitas Gadjah Mada (UGM), Yogyakarta, INDONESIA

ID 077 Human Machine Collaboration for Car Toys Assembly Line by Using Discrete Event Simulation Approach

Jessica Florencia, Ivan Kurniawan, and Aditya Tirta Pratama, Department of Industrial Engineering, Swiss German University, Tangerang, Indonesia

ID 079 A Proposed of Lean Six Sigma Framework for Higher Education Institution (LSSF - for HEdu) To Improve Effectiveness and Efficiency of Higher Education in Indonesia Indonesia

Ig. Jaka Mulyana, Department of Industrial and Systems Engineering
Institut Teknologi Sepuluh Nopember, Surabaya Indonesia, Department Industrial Engineering, Widya Mandala Surabaya
Catholic University, Surabaya Indonesia

Moses Laksono Singgih and Sri Gunani Partiwi, Department of Industrial and Systems Engineering, Institut Teknologi Sepuluh Nopember, Surabaya Indonesia

ID 080 Is the influence of Net Working Capital on Earnings per Share Critical: A Literature Review?

Batumalay Kaliannan, Universiti Teknologi Malaysia, Asia Metropolitan University, Bandar Baru Seri Alam, Johor, Malaysia

Mohd Norfian Alifiah, Universiti Teknologi Malaysia, Skudai, Johor, Malaysia

Kanesan Muthusamy, UCSI University, Malaysia, Cheras, Kuala Lumpur, Malaysia

ID 081 Strategic Market Planning Using SWOT Approach for Robotic Post-Stroke-Rehabilitation Product

Berty Dwi Rahmawati, Department of Industrial Engineering, Faculty of Industrial Engineering, Universitas Pembangunan Nasional Veteran Yogyakarta

Herianto, Department of Industrial and Machine Engineering, Faculty of Engineering, Universitas Gadjah Mada

ID 083 Lean Manufacturing Approach for Improvements of Work System in Furniture Factories (A Case Study in PT. Salim Selamat Sempurna)

Aldo Salim, Christian, Lina Gozali, Frans Jusuf Daywin, Harto Tanujaya, Industrial Engineering, Universitas Tarumanagara, Jakarta, Indonesia 11440

Iveline Anne Marie, Industrial Engineering, Universitas Trisakti, Jakarta, Indonesia, 11440

Agustinus Purna Irawan, Harto Tanujaya, Mechanical Engineering, Universitas Tarumanagara, Jakarta, Indonesia, 11440

ID 084 Production Planning and Control Industry 4.0 on Plastic Bottles With the Blow Moulding Process (Case Study Pt. Peace Industrial Packaging)

Sharin Chandra, Student of Industrial Engineering Department, Lecturer of Industrial Engineering Department, Universitas Tarumanagara, Jakarta, Indonesia

Lina Gozali, and Andres Tjhia, Frans Jusuf Daywin, Lecturer of Industrial Engineering Department, Universitas Tarumanagara, Jakarta, Indonesia

ID 085 Factory Re-Layout with SLP, CRAFT, CORELAP, Promodel, and FlexSim for Optimization of Material Flow Movement

Aurellia Kharisty Tjusila, Lina Gozali, Carla Olyvia Doaly, Department of Industrial Engineering, Faculty of Engineering, Universitas Tarumanagara, Jl. S. Parman No 1, Jakarta, 11440, Indonesia

ID 086 Quality Control Analysis Using DMAIC Method and DPMO Calculations on Low Voltage Cable Production (Case Study at PT XYZ Jakarta)

Felita Yulianti and Lina Gozali, Department of Industrial Engineering, Faculty of Engineering, Universitas Tarumanagara, Jl. S. Parman No 1, Jakarta, 11440, Indonesia

ID 087 Analysis of Readiness toward Halal Certification in Sumatera Utara (Case study in Food Manufacturer)

Dini Wahyuni, Ph.D student at Department of Industrial Engineering, Universitas Sumatera Utara, Province of Sumatera Utara 20155, Indonesia

Nazaruddin, Department of Industrial Engineering, Universitas Sumatera Utara, Province of Sumatera Utara 20155, Indonesia

Rifdah Hanuun, Department of Industrial Engineering, Universitas Sumatera Utara, Province of Sumatera Utara 20155, Indonesia

Irwan Budiman, Department of Industrial Engineering, Universitas Prima Indonesia, Province of Sumatera Utara 20111, Indonesia

ID 088 Development of a Public Transportation Location-Based Service in Web Application

Wahyuddin S, Amik Lamappapoleonro Soppeng, Lalabata Rilau, Lalabata, Soppeng, 90812, Indonesia,

Mahir Pradana, Telkom University, Jalan Terusan Buah Batu, Bandung, 40257, Indonesia

Andi Fery Widodo, Universitas Dipa Makassar, Jalan Perintis Kemerdekaan KM. 9, Makassar, 90245, Indonesia

Gidion Aryo Nugraha Pondatu, Universitas Kristen Indonesia Toraja, Jalan Jenderal Sudirman No. 9 Bombongan, Tanah Toraja, 91811, Indonesia

Diki Wahyu Nugraha, Prodi/Jurusan D4 Teknik Informatika Politeknik Pos Indonesia, Jln. Sari Asih No. 54, 40151 Bandung, Jawa Barat. Indonesia

ID 089 Identification of the PLCOR Model for the Management of Product Lifecycle Management Process in Food Industry

Deasy Kartika Rahayu Kuncoro, Department of Agroindustrial Technology, Faculty of Agricultural Technology and Engineering, IPB University, Dramaga, Bogor, Indonesia

Wara Widyarini Endah Saptaningtyas, Agency of Industrial Research and Standardization Samarinda, Ministry of Industry Republic of Indonesia, Samarinda, Indonesia

ID 090 FMEA METHOD FOR IDENTIFYING THE RISK OF FAILURE THE BOSS 05K ROTOR IN MACHINING PRODUCTION PROCESS

Jesica Laurensia and Lina Gozali, Department of Industrial Engineering, Faculty of Engineering, Universitas Tarumanagara, Jl. S. Parman No 1, Jakarta, 11440, Indonesia

ID 091 Line Balancing in Assembly Line Automotive Carrosserie (Body of a Car) Production Process at PT. XYZ

Melynia Novita Pratama and Lina Gozali, Department of Industrial Engineering, Faculty of Engineering, Universitas Tarumanagara, Jl. S. Parman No 1, Jakarta, 11440, Indonesia

ID 092 Material Requirement Planning on Y-Strainer Production (Case Study at PT. XYZ)

Natalia Velony Putri and Lina Gozali, Department of Industrial Engineering, Faculty of Engineering, Universitas Tarumanagara, Jl. Letjen S. Parman No. 1, Jakarta 11440, Indonesia

ID 093 Analysis of driving and inhibiting factors for managing food waste in restaurants

Siti Mahsanah Budijati, Fatma Hermining Astuti, and Wandhansari Sekar Jatiningrum, Industrial Engineering Department, Faculty of Industrial Technology, Universitas Ahmad Dahlan, Yogyakarta, Indonesia

ID 094 Quality Improvement of Shoes Manufacturing Process at SMEs using the Quality Function Deployment (QFD)

Rosnani Ginting and Aulia Ishak, Department of Industrial Engineering, Universitas Sumatera Utara, Medan, 20155, Indonesia

ID 095 Quality Function Deployment for the Improvement of the attributes from a Hybrid Micro Hydro-Solar Generator

Rosnani Ginting and Aulia Ishak, Department of Industrial Engineering, Universitas Sumatera Utara, Medan, 20155, Indonesia

ID 096 Evaluating Supply Chain Sustainability Risks Using Integrated Shannon Entropy, Statistical Variance and Prospect Theory

Agung Sutrisno, Department of Mechanical Engineering, Sam Ratulangi University, Manado, Vikas Kumar, Faculty of Business and Law, University of the West of England, UK

ID 097 A Flow Shop Batch Scheduling Model with Part Deterioration and Operator Learning-Forgetting Effects to Minimise Total Actual Flow Time

Dwi Kurniawan, Industrial Engineering Department, Institut Teknologi Nasional, Bandung 40124, Indonesia

Rinto Yusriski, Industrial Engineering Department, Universitas Jenderal Achmad Yani, Bandung 40285, Indonesia

Mohammad Mi'radj Isnaini, Anas Ma'ruf, Abdul Hakim Halim, Industrial Engineering Department, Institut Teknologi Bandung, Bandung, Indonesia

ID 098 Analysis of Halal Supply Chain in Chicken Meat Products using Human Error Perspective

Dini Wahyuni, Nazaruddin, Rinaldi Apriza Marpaung, Department of Industrial Engineering, Universitas Sumatera Utara, Province of Sumatera Utara 20155, Indonesia

Irwan Budiman, Department of Industrial Engineering, Universitas Prima Indonesia, Province of Sumatera Utara 20111, Indonesia

ID 099 Simulated Annealing Algorithm for Vehicle Routing Problem with Simultaneous Pick Up and Delivery: A Case Study of Liquid Petroleum Gas Distribution

A.A.N. Perwira Redi, Department of Industrial Engineering, BINUS Graduate Program - Master of Industrial Engineering, Universitas Bina Nusantara, DKI Jakarta, 11480, Indonesia

Fatikhatuz Zahra, Prima Arinda Nurul Islami and Nur Layli Rachmawati, Department of Logistics Engineering, Universitas Pertamina, DKI Jakarta, 12220, Indonesia

Reny Nadlifatin, Department of Information System, Institut Teknologi Sepuluh, Nopember, Surabaya, 60111, Indonesia

Agus Supranartha, Department of Electrical Engineering, Universitas Pendidikan Nasional, Bali, Indonesia

ID 100 Effect of Different Fatigue Levels on Work Quality in an Experimental Cognitive Task

Asterina Febrianti, Yoanita Yuniati, Dwi Kurniawan, Industrial Engineering Department, Institut Teknologi Nasional, Bandung 40124, Indonesia

ID 102 A Knowledge Sharing Behavior Model and Its Effect on Employees' Innovative Work Behavior

Mohammad Mi'radj Isnaini, Dina Nadhirah, Iwan Inrawan Wiratmadja, Industrial Engineering Department, Institut Teknologi Bandung, Bandung 40132, Indonesia

ID 103 A Model of Multiple Items Batch Scheduling for m Batch Processors Flowshop to Minimize Total Actual Flowtime

Nita P.A Hidayat, Industrial Engineering, Bandung Islamic University, Bandung, Indonesia

Wisnu Aribowo, Abdul Hakim Halim, Industrial Engineering Department, Bandung Institute of Technology, Bandung, Indonesia

Abdul Hakim Halim, Bandung Institute of Technology, Bandung, Indonesia

ID 105 Implementation of Lean Healthcare For Waste Elimination at Darmayu Ponorogo Hospital

Haniatu Susanti, Master Program of Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Indonesia

Bambang Suhardi, Laboratory of work system design and ergonomics, Department of Industrial Engineering, Faculty of Engineering, Universitas, Sebelas Maret, Surakarta, Indonesia

Novie Susanto, Department of Industrial Engineering, Faculty of Engineering, Universitas Diponegoro, Semarang, Indonesia

ID 106 Usability Testing of Syringe Adapters and Conventional Syringe in Healthcare Workers

Firdaus Ashari, Bambang Suhardi, Department of Industrial Engineering, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Indonesia

Novie Susanto, Department of Industrial Engineering, Faculty of Engineering, Universitas Diponegoro, Semarang, Indonesia

Nanang Wiyono, Department of medicine, Faculty of Medicine, Universitas Sebelas Maret, Surakarta, Indonesia

ID 107 Blockchain Adoption for Halal Food Integrity in Indonesian Food Industry

Iwan Vanany and Nandya Shafira Pramesti, Department of Industrial and System Engineering, Institut Teknologi Sepuluh Nopember, Sukolilo, Surabaya 6011, Indonesia

N.A. Rakhmawati, Department of Information System, Institut Teknologi Sepuluh Nopember, Sukolilo, Surabaya, Indonesia

J.M.Soon, University of Central Lancashire, Faculty of Health and Wellbeing, International Institute of Nutritional Sciences and Applied Food Safety Studies, Preston, United Kingdom

ID 108 Behavioral Factors Underlying Households' Intention Toward Solar Photovoltaic Adoption

Nurwidiana Nurwidiana, Mechanical and Industrial Engineering Department, Universitas Gadjah Mada (UGM), Indonesia Industrial Engineering Department, Sultan Agung Islamic University, Indonesia

Bertha Maya Sopha and Adhika Widyaparaga, Mechanical and Industrial Engineering Department, Universitas Gadjah Mada, Indonesia

ID 110 Capturing Profile of Halal Chicken Meat Slaughterhouse in Indonesia: A Clustering Approach

Harwati, Department of Mechanical and Industrial Engineering, Faculty of Engineering, Universitas Gajdah Mada, Yogyakarta, Indonesia

Department of Industrial Engineering, Faculty of Industrial Technology Universitas Islam , ndonesia, Yogyakarta, Indonesia

Anna Maria Sri Asih, Bertha Maya Sopha, Department of Mechanical and Industrial Engineering, Faculty of Engineering, Universitas Gajdah Mada, Yogyakarta, Indonesia

ID 111 Robust Optimization of Multi Depot Vehicle Routing Problems with Simultaneous Deliveries and Pickups in an Uncertain Environment

Dina Natalia Prayogo, Department of Industrial Engineering, University of Surabaya, Raya Kalirungkut, Surabaya, Indonesia

ID 114 Risk Management Measurement Model in Small and Medium Industries

Isnaini Rodiyah, Wiwik Sulistiyowati, and Ika Ratna Indra Astutik, Universitas Muhammadiyah Sidoarjo, Sidoarjo, Indonesia

ID 115 Public Facility During Pandemic MULTIFUNCTIONAL DINING TABLE DURING COVID 19

Thomson Richard, Ferdinand, Sub Han Wijaya, and Anil Nirmal, Department of Industrial Engineering, Tarumanagara University, Jakarta, Indonesia

Frans Jusuf Daywin, Lina Gozali, Helena Juliana Kristina, Andres, Department of Industrial Engineering, Tarumanagara University, Jakarta, Indonesia

ID 116 Modification of Food Dehydrator for Tea Blend Products Using Reverse Engineering and VDI 2221 Methods

Laurencia Sutianto, Lina Gozali, Frans Jusuf Daywin, Industrial Engineering Program, Faculty of Engineering, Tarumanagara University, Jakarta, Indonesia

ID 118 Cost-Volume-Profit Analysis for Uncertain Capacity Planning: A Case Study

Hayati Mukti Asih, Department of Industrial Engineering, Faculty of Industrial Technology, Universitas Ahmad Dahlan, Daerah Istimewa Yogyakarta, 55191 Indonesia

Chong Kuan Eng, Faculty of Manufacturing Engineering, Universiti Teknikal Malaysia Melaka, Melaka, 76100, Malaysia

ID 120 Set Covering Method Determine The Capacity, Type and Covering Area of The Temporary Landfill Facility in Each Region

Annie Purwani, Utaminingsih Linarti, Fajar Pujo Kesumo, Ekky Armandi, Department of Industrial Engineering, Universitas Ahmad Dahlan, Yogyakarta, Indonesia

ID 121 A Green Inventory Management for Manufacturer-Retailer System with Stochastic Demand and Carbon Tax

Wakhid Ahmad Jauhari, Department of Industrial Engineering, Institut Teknologi Sepuluh Nopember, Surabaya, Indonesia, & Department of Industrial Engineering, Universitas Sebelas Maret, Surakarta, Indonesia

I Nyoman Pujawan and Mokh Suef, Department of Industrial Engineering, Institut Teknologi Sepuluh Nopember, Surabaya, Indonesia

ID 132 Evaluation of Warehouse Operation in Power Plant Company Using Discrete Event Simulation

Aryo Saputra, Tri wahyu hidayat, Fitra Lestari, and Muhammad Rizki, Industrial Engineering Department, Science and Technology Faculty, Sultan Syarif Kasim State Islamic University, Pekanbaru, Riau 28293, Indonesia

ID 133 A Logic model development for planning program in Indonesia SMEs - Case study: Pucung, Manding, and Keparakan Kidul leathercraft industries

Galuh Puspita Sari & Diana Ross Arief, Lecturer, Department of Leather Product Processing Technology, Lecturer, Department of Rubber and Plastic Processing Technology, Politeknik ATK Yogyakarta (Indonesia Ministry of Industry), Jalan Prof. Dr. Wirdjono Prodjodikoro, Glugo, Panggungharjo, Sewon, Bantul, Yogyakarta 55188, Indonesia.

Felix Arril Simbara Barus, Doctoral Student, Department of Industrial Management, National Taiwan University of Science and Technology, No.43, Keelung Rd., Sec.4, Da'an Dist., Taipei City 106335, Taiwan (R.O.C.)

ID 134 REDESIGNING OF FACILITY LAYOUT IN PT. OCEAN CENTRA FURNINDO USING GROUPTECHNOLOGY, CORELAP AND CRAFT METHOD

Hubert Wahyudi, Frans Jusuf Daywin, Carla Olyvia Doaly, Lina Gozali, Wilson Kosasih, Industrial Engineering, Tarumanagara University, Jakarta, Indonesia

ID 135 The Effect of Safety Management and Perceived Motivation on Safety Practices for Safety Performance and Quality of Care

Au Yong Hui Nee and Charles Remendran S.P.R., Faculty of Business and Finance, Universiti Tunku Abdul Rahman, 31900 Kampar, Perak, Malaysia

Lilis Sureinty, School of Management, Universiti Sains Malaysia, 11800 USM Penang, Malaysia

136 Utilizing Local Wisdom Community Towards A Healthy Food Industry: A Preliminary Research of Torbangun Leaves Biscuit

Donal Nababan, Rizabuana Ismail, Ivana Tiar, Universitas Sumatera Utara

ID 137 Cold Chain Planning for COVID-19 Vaccine Distribution

Ferensius Axel Oscar Reynaldi and Rienna Oktarina, Industrial Engineering Department, Bina Nusantara University, Jakarta, Indonesia. 11480

ID 141 Business Feasibility Analysis: Multifunction Bus HandGrip

Felita Yulianti, Kevin Ravenska, Jesica Laurensia, Lina Gozali, Wilson Kosasih, Carla Olyvia Doaly, Frans Jusuf Daywin, Industrial Engineering Department, Universitas Tarumanagara, Jl. S. Parman No 1, Jakarta, 11440, Indonesia

Agustinus Purna Irawan, Harto Tanujaya, Mechanical Engineering Department, Universitas Tarumanagara, Indonesia 11440, Jl. S. Parman No 1, Jakarta, 11440, Indonesia

ID 142 Planning Business Analysis of Multifunction Car Locker

Bryankim Phangestu 1, Ferian Waisakha Putra 2, Lika Angelina 3, Lina Gozali 4, Wilson Kosasih 5, Carla Olivia Doaly 6, Agustinus Purna Irawan 7, Harto Tanujaya 8, Frans Jusuf Daywin 9

- 1, 2, 3, 4, 5, 6, 9 Industrial Engineering Department, Universitas Tarumanagara, Jakarta, Indonesia
- 7, 8 Mechanical Engineering Department, Universitas Tarumanagara, Jakarta, Indoensia

ID 143 Production, plant layout, and financial planning of Multifunctional Back Car Seat Organizer

Marcella Darmawan, Verry Gunawan, Nicholaus Christiardy Sumardi, Lina Gozali, Wilson Kosasih, Carla Olivia Doaly, Frans Jusuf Daywin, Industrial Engineering Department, Universitas Tarumanagara, Jakarta, Indonesia, 11440

Agustinus Purna Irawan, Harto Tanujaya, Mechanical Engineering Department, Universitas Tarumanagara, Jakarta, Indonesia 11440

ID 144 Business Feasibility Analysis: Multifunctional Handphone Holder

Gabby Florencia, Ignacia Claresta, Hendrawan Suryajaya, Lina Gozali, Wilson Kosasih, Carla Olivia Doaly, , Harto Tanujaya, Industrial Engineering Department, Universitas Tarumanagara, Jakarta, Indonesia, 11440,

Agustinus Purna Irawan, Frans Jusuf Daywin, Mechanical Engineering Department, Universitas Tarumanagara, Jakarta, Indonesia

ID 145 Design Planning of Hand Sanitizer Dispenser and First Aid Kit on Bus

Alvina Chandra, Kenheskey, Suvalen, Lina Gozali, Wilson Kosasih, Carla Olivia Doaly, and Frans Jusuf Daywin, Industrial Engineering Department, Universitas Tarumanagara, Jakarta, Indonesia, 11440,

Agustinus Purna Irawan, Harto Tanujaya, Mechanical Engineering Department, Universitas Tarumanagara, Jakarta, Indonesia

ID 146 Design Key Performance Indicator for Supplier in Sustainable Organic Farming Supply Chain

Elisa Kusrini, Industrial Engineering Department, Faculty of Industrial Technology, Indonesian Islamic University (UII)

Anindita Rahmalia Putri, Billi Syufrian and Nurul 'Aini, Master Industrial Engineering, Faculty of Industrial Technology, Indonesian Islamic University (UII)

ID 147 Examining Customer Service Performance in Shipping Company

Lianna Wijaya and Tiurida Lily Anita, Management Department, Faculty of Binus Online Learning, Hotel Management Department, Faculty of Economy, Bina Nusantara University, Jakarta, Indonesia

Athea Sarastiani, Service Management, Trisakti University, Jakarta, Indonesia

Asep Suparman, Faculty of Business Management, Trisakti Logistic & Transportation Institute, Jakarta, Indonesia

ID 149 Development of Automatic Wound Healing Level Detection System based on Convolutional Neural Network

Michael Ethan, Sofyan Tan, Winda Astuti,, Automotive and Robotics Program, Computer Engineering Department, BINUS ASO School of Engineering, Bina Nusantara University, Jakarta, Indonesia

Yuli Astuti Andriatin, Nursery Departement, Cilacap Regional General Hospital, Gatot Subroto No.28, Cilacap, Central Jawa, Indonesia

ID 150 Development of Automatic Tomato Plant Diseases Detection System based on Convolutional Neural Network

Raditya Rifqi Rayhan, Muhammad Nurul Puji, Winda Astuti, Automotive and Robotics Program, Computer Engineering Department, BINUS ASO School of Engineering, Bina Nusantara University, Jakarta, Indonesia 11480

ID 151 Automatic Cataract Detection System based on Support Vector Machine (SVM)

Leonardo Michael Marcello , Endra Oei, Zener Sukra Lie, Winda Astuti, Automotive and Robotics Engineering Program, Computer Engineering Department, BINUS ASO School of Engineering, Bina Nusantara University, Jakarta 11480, Indonesia

ID 152 A Conceptual Model: The Role of Social Networking in Indonesian SMEs during COVID-19 Pandemic

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, Department of Management-Faculty of Economic and Business, Universitas Gadjah Mada (UGM), Yogyakarta, Indonesia

Nurul Indarti, Department of Management-Faculty of Economic and Business, Universitas Gadjah Mada (UGM), Yogyakarta, Indonesia

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

ID 153 Supply Chain Risk Assessment of Hazardous Chemical Products in a University Laboratory

Dacanay, Daren Joy T, Velasco, Ma. Carmina C, Quevedo, Venusmar C, Lasian, Lourdes P, Industrial Engineering Department, Adamson University, Manila, Philippines

ID 154 Kano Lean Six Sigma (KLSS) for Improving Service Quality at Education Technology (EdTech) Startups

Moses Laksono Singgih, Reza Aulia Akbar, and Okto Abdillah, Department of Industrial and Systems Engineering, Institut Teknologi Sepuluh Nopember (ITS), ITS Campus, Keputih-Sukolilo, Surabaya, Indonesia

ID 156 The Influence of Moods And Emotions On Female Leadership Style In The Hospitality Industry

Munawaroh, Hotel and Tourism Management, Faculty of Business and Communication, Swiss German University, Indonesia

Tiurida Lily Anita, Hotel Department Management, Faculty of Economic and Communication, Bina Nusantara University, Indonesia

Rivani Farahmita, Hotel and Tourism Management, Faculty of Business and Communication, Swiss German University, Indonesia

ID 157 Assessment of Laboratory Occupational Safety and Health at Engineering Faculty of Diponegoro University

Heru Prastawa, Manik Mahachandra, Dita Rizkiana, Industrial Engineering Department, Faculty of Engineering, Diponegoro University, Semarang, Central Java 50269, Indonesia

ID 159 A Simulated Annealing Heuristics for Delivery Time Equality of the Couriers in an Expedition Company

Artya Lathifah, Industrial and Information Management Department, College of Management, National Cheng Kung University, Tainan, Taiwan

Hikmah Sekarningtyas, Industrial Engineering Department, Sepuluh Nopember Institute of Technology, Surabaya, East Java, Indonesia

ID 161 Fintech: The Impact of Technological Innovation on the Performance of Banking Companies

Felix Fernando, Christiana Fara Dharmastuti, Atma Jaya Catholic University of Indonesia, Jakarta, Indonesia

ID 162 The Critical Organization Factor Contribute Lecturers' Happiness

Nurul Nazihah Awang Kechek, Khairunesa Isa, Syamimi Syafiqah Shahlal, Science Social Department, Centre for General Studies and Cocurricular, University Tun Hussein Onn, Batu Pahat, Malaysia

ID 163 Analysis of Warteg's Customer Satisfaction Levels on the Use of Food Delivery Services

Farida Aprilia Rozanto, Rienna Oktarina, Industrial Engineering Department, BINUS University, Jakarta, Indonesia, 11480

ID 167 Preventing Stranded Coal Power Assets by Using Comparative Scenario of Energy Mixture and The SWOT Analysis of Energy Sector in Indonesia

Rizal Ari Fando, Industrial Engineering Student, Sampoerna University, Jakarta Selatan, 12780, Indonesia

Jeanne Svensky Ligte, M.Eng., Head of Smart Production and Supply Chain Laboratory, Industrial Engineering Lecturer, Faculty of Engineering and Technology, Sampoerna University, Indonesia

ID 168 Improving Mixing Process Quality for Sweet Soybean Sauce Using Full Factorial Design of Experiment

Noorilyana Abu Bakar, Department of Mechanical Engineering, Politeknik Ibrahim Sultan, Km 10, Jalan Kong Kong, 81700 Pasir Gudang, Johor, Malaysia

Adnan Hassan, Department of Materials, Manufacturing & Industrial Engineering, School of Mechanical Engineering, Universiti Teknologi Malaysia, Skudai, Johor 81310, Malaysia

ID 173 Developing Strategies for Improving Overall Equipment Effectiveness Using FMEA and FAHP

Imam Sya'roni and Dwi Agustina Kurniawati, Industrial Engineering Department, Faculty of Science and Engineering, Sunan Kalijaga State Islamic University, Yogyakarta, Indonesia

ID 174 Developing e-logistics system for Plastic Recycle in order to Enhance the Role of Community-Based Waste Bank

R.B. Seno Wulung, Midarto Dwi Wibowo, Yuli Suwarno, Rofiatun Nafiah, Politeknik ATK Yogyakarta, Jl.Ateka, Bangunharjo, Sewon, Bantul, D.I.Yogyakarta

ID 176 Influence of Price, Quality Of Service and Promotion toward Purchase Decisions at one Coffee Shop in Tangerang

Calvin H. 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

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

ID 178 Sustainability of Brand Equity of Business Management in Local Firm: Experience 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 179 Brand Communication and Service Quality Contribution in Building Brand Loyalty through Brand Trust in Indonesia's Garuda Airways

Evanny Andoko 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

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

ID 182 Net Zero Energy Building: Modeling and Techno-Environmental Evaluation of a Retrofitted Building

Mohd Amin Khalili, Md Mizanur Rahman, Aminuddin Saat, Mohd Faizal Hasan and Mazlan Abdul Wahid, School of Mechanical Engineering, Faculty of Engineering, Universiti Teknologi Malaysia (UTM), 81310 Johor Bahru, Johor, Malaysia

ID 194 Preparing New Engineer for the Job Skills Demanded in the 21st Century

Albertus Retnanto, Ph.D., Professor, Petroleum Engineering, Texas A&M University at Qatar, Doha, Qatar

Hamid R. Parsaei, Ph.D., P.E., Professor, Department of Industrial and Systems Engineering, Texas A&M University, College Station, TX, USA

Boback Parsaei, Integrated Technology Systems, Inc., Houston, Texas, USA

ID 198 The Impact of Dynamic Capability as a Driver of Innovation Ambidexterity on MSMEs' Performance in Bali, Indonesia

Grisna Anggadwita and Ni Made Aprilia Vidayani, School of Economics and Business, Telkom University, Bandung, Indonesia

Dini Turipanam Alamanda, Faculty of Economy, Garut University, Garut, Indonesia

Werda Bagus Profityo, School of Communication and Business, Telkom University, Bandung, Indonesia

ID 199 The Influence of Investment and Wage Levels on The Human Development Index (Case 6 Province in Sulawesi) 2015-2019

Nur Azmi Karim, Tjia Fie Tjoe, and Iston Dwija Utama, Entrepreneurship Department, Binus Business School Undergraduate Program Bina Nusantara University, Campus Bandung

ID 200 The Effect of Job Resources Demand on Job Performance Through Work Engagement, which is

moderated by Computer-Related Technostress

Alex Winarno, Department of Business Administration, Faculty of Communication and Business, Universitas Telkom, Bandung, Indonesia

Heri Sapari Kahpi and Anis Fuad Salam, Department of Management, STIE Banten, Serang, Indonesia

Deni Hermana, Department of Management, Faculty of Economic and Business, Universitas Pakuan, Bogor, Indonesia

ID 201 Value Proposition Canvas Validation: Measuring Customer Satisfaction of Photography Business

Kevin Setiawan, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia 11480,

Marceline Sandy, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia

Mulyani Karmagatri, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University Jakarta, Indonesia

ID 202 Competitive Advantage Strategy Implementation to Gain Customers Engagement and Brand Positioning

Ario Oriwarda Girsang, Nicholas Veri, Reyner Giovanni Tjandra, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia 11480

Mulyani Karmagatri, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia

ID 203 Product Development Assessment to Measure The Accuracy in Realizing Customer Expectations: Case Study in Ricebowl Small Business Hongmiao

David Iskandar, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia

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

Reinhart Jason Darmawan, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia

Mulyani Karmagatri, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia

ID 204 Applications and Challenges of Adopting Internet of Things (IoT) in Reducing Road Traffic Accidents

Ryan M. Paradina and Marvin I. Noroña, School of Industrial Engineering and Engineering Management, Mapua University, Manila, Philippines

ID 205 Implementation of Global Sustainability Management in Micro Small Medium Enterprises of Undergraduate Students in an Entrepreneurship Major

Santika Syaravina, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia

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

ID 206 The Coffee Shop Customer perception of product acceptances and willingness to pay of organic coffee Beverages: A case study from small business "NgoopiKopi"

Cartarava Dewangga, Entrepreneurship Dept., BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia

Mulyani Karmagatri, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia

Mira Rustine, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia

ID 207 Marketing Strategy to Introduce and Increase Sales of Korean Aesthetic Cake During the Pandemic: A Case Study of Small Cake business Hi Buy Keikeu

Anastasia Ichthus, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia

Mulyani Karmagatri, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia

ID 209 Marketing Strategy Analysis on Daily Crafts Accessories

Felicia Irene, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia

Nadya Devina, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia,

Putri Pricilla Setiawan, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia

Mulyani Karmagatri, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia

ID 210 Business Development: Excity Business Analysis - Kpop Themed T- shirt

Jessica Dermawan Foedarsono, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia

Shella Novia, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara, University, Jakarta, Indonesia

Mulyani Karmagatri, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia

ID 212 Create and Develop Italian Food Business Opportunities with a Taste of the Archipelago at Sayeat.co

Aldi Reynaldi, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia

Maria Cempaka Putri Wijayanto, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia

Mulyani Karmagatri, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara

ID 213 MARKETING STRATEGY FOR NEW BRAND FASHION: A CASE STUDY OF VAMODE FASHION BUSINESS

Angeline Yolanda, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia

Velensia Halim, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia

Mulyani Karmagatri, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia

ID 223 Technology Capabilities and Innovation Ambidexterity Impact on MSME Business Resilience during Covid-19 Pandemic in Bandar Lampung

Grisna Anggadwita, Rhahma Yulia Putri, and Erni Martini, School of Economics and Business, Telkom University, Bandung, Indonesia

ID 224 Reforming CAD/CAM and CNC Machining Course by Using "Process-oriented" for Higher Education Institutes (HEI's)

Ikrom Kambarov, Abror Hoshimov, Jamshid Inoyatkhodjaev, Department of Mechanical and Aerospace Engineering Turin Polytechnic University in Tashkent, Kichik khalka yuli st.17, 100095 - Tashkent - Uzbekistan

ID 227 Measuring the effectiveness of Healthy Values Brand Positioning Strategy: A Case Study of Healthy Bakery Café- Moose Bake Shop

Junus Shindarta, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia

Mulyani Karmagatri, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia

Dian Kurnianingrum, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia

ID 228 Public Product During Pandemic: Multifunctional Hygiene Facility

Kevin Adrian, Shafa Alauddino Priantoraharjo, Marchelino Gosal, Agnes Setiawan, Lina Gozali, Frans Jusuf Daywin, Helena Juliana Kristina, and Andres, Industrial Engineering Department, Universitas Tarumanagara, Jakarta, Indonesia, 11440

Agustinus Purna Irawan, Harto Tanujaya, Mechanical Engineering Department, Universitas Tarumanagara, Jakarta, Indonesia, 11440.

ID 229 Smart Trolley as Sophisticated Supermarket Facility in Covid-19 Pandemic Era

Jonathan Albert, Willy Harianto, Gabrielle Halim, Geraldo Rafael, Lithrone Laricha Salomon, Lina Gozali, Frans Jusuf Daywin, Helena Juliana Kristina, and Andres, Industrial Engineering Department, Universitas Tarumanagara, Jakarta, Indonesia

Agustinus Purna Irawan and Harto Tanujaya, Mechanical Engineering Department, Universitas Tarumanagara, Jakarta, Indonesia

ID 230 Designing Strategy for Meisterstadt Batam Apartment Unit Using SWOT and QSPM Method

Nanang Alamsyah, Department of Industrial Engineering, Universitas Pembangunan Nasional Veteran Jakarta, Jakarta Selatan, DKI Jakarta, Indonesia

Trenggono Tri Widodo, Department of Industrial Engineering, Universitas Ibnu Sina, Batam, Kepulauan Riau, Indonesia

Yulizar Widiatama, Department of Industrial Engineering, Universitas Pembangunan Nasional Veteran Jakarta, Jakarta Selatan, DKI Jakarta, Indonesia

Dika Ade Viona, Meisterstadt Batam Apartment, Batam, Kepulauan Riau, Indonesia

ID 232 A Proposed risk model for the halal supply chain

Anisa Nurul Islamadina and Iwan Vanany, Department Industrial and Systems Engineering, Institut Teknologi Sepuluh Nopember (ITS), Surabaya, Indonesia

ID 234 Layout Design of Distributor Warehouse PT. X in Sidoarjo

Abdur Rohim Achmad, Indri Hapsari, Dina Natalia Prayogo, Industrial Engineering, University of Surabaya, Indonesia

ID 235 The Use of Grey Failure Mode and Effect Analysis (FMEA) to Improve Production Quality in Textile Company (Case Study: PT. ABC)

Muhammad Zulfikar, Irine Indriana Wati, and Ira Setyaningsih, Industrial Engineering Department, UIN Sunan Kalijaga Yogyakarta, Yogyakarta, Indonesia

ID 237 Customer Satisfaction Analysis on Food Delivery Services during the COVID-19 Pandemic Using Bayesian Network

Rendi Kurniawan, Tutik Farihah, Department of Industrial Engineering, Sunan Kalijaga Islamic State University Yogyakarta, Indonesia

ID 239 Quality Function Deployment (QFD) Approach for Digitalization of Teluk Lamong Terminal Services System in Support of Indonesia's "Sea Toll" Program

Tri Wijaya N. Kusuma, Amanda N. Cahyawati, Sylvie I. Kartika Sari, Ahmad M. Iqbal, Deandra Denidaulia, Mohammad R. Kurnia, Nanda R. Amalia, Tazkiya A. Hanan, Irmala, Oktaviana Department of Industrial Engineering, Faculty of Engineering, Universitas Brawijaya, Malang, Indonesia

ID 247 Sea Toll Services Criteria Cluster Analysis to Minimize Price Disparity of Indonesian Eastern Areas amidst The Covid-19 Pandemic

Tri Wijaya, N. Kusuma, Ihwan Hamdala, Amanda Nur Cahyawati, Lecturer at the Department of Industrial Engineering, Universitas Brawijaya, Malang, 65145, Indonesia

Giyazi Azka Hafiyyan, Ega Ulaya H, Dea Damaris, Muhammad Rifqi, Firyal Azizah, Undergraduate Industrial Engineering Student of Universitas Brawijaya, Malang, 65145, Indonesia

I G. N. Sumanta Buana, Lecturer at the Department of Marine Transportation Engineering, ITS, Surabaya, 60111, Indonesia

ID 249 Model of e-supply chain by Adopting Blockchain Technology in Salt SMEs in indonesia

Issa Dyah Utami, Department of Industrial Engineering, Universitas Tunojoyo Madura, Bangkalan, Indonesia

Trisita Novianti, Department of Industrial Engineering, Universitas Tunojoyo Madura, Bangkalan, Indonesia

Dwi Kuswanto, Department of Informatics Engineering, Universitas Tunojoyo Madura, Bangkalan, Indonesia

ID 250 Design and Development of Automatic Bakelite Cleaner for Marilao Alerco Industrial Corporation

Val Ryan E. Aguilar, Racquel G. Tadina, and Eugene R. Tamba Industrial Engineering Department, Technological Institute of the Philippines - Manila, 1338 Arlegui Street, Quiapo, Manila, Philippines

Maria Teresa B. Mendoza, PIE, ASEAN Eng. Chairperson, Industrial Engineering Department, Course Adviser & Design

Project Adviser, Industrial Engineering Department, Technological Institute of the Philippines - Manila, 1338 Arlegui Street, Quiapo, Manila, Philippines

ID 252 Halal Operation Assessment using Quality Function Deployment in Indonesian Cosmetics Industry

Muhammad Nurhasan Assidiq, Department of Technology Management, Institut Teknologi Sepuluh Nopember, Surabaya, Indonesia

Iwan Vanany, Department of Industrial and Systems Engineering, Institut Teknologi Sepuluh Nopember, Surabaya, Indonesia

ID 253 Determining Promotion Media Based on Customer Characteristic using Cluster Analysis and Marketing Mix Strategy

Mohammad Arsyad Fathurrohman, Jihan Afifah, Rahma Fariza, Annisa Uswatun Khasanah, Department of Industrial Engineering, Faculty of Industrial Technology, Universitas Islam Indonesia (UII), DI Yogyakarta, Indonesia

ID 254 Logistic Service Quality: An Approach Strategy for National Market Growth

Sidik Budiono, 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

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

ID 255 Switching Intention of ATM Link to Digital Transactions in Responding Himbara's Bank New Policy: PPM Framework Perspective

Gidion P. Adirinekso, Department of Management Faculty Economics and Business, Universitas Kristen Krida Wacana, Jakarta, 11470 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 256 Digital Industry Competition of Video on Demand Services: Technology Perspective and Consumer Behavior

Gidion P. Adirinekso, Department of Management Faculty Economics and Business, Universitas Kristen Krida Wacana, Jakarta, 11470 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 257 Global Research Trends and Indonesia's Position in the Development and Application of Electric Trucks: A Literature Review

Benazir Imam Arif Muttaqin, Industrial Engineering Department, Faculty of Industrial and Information Technology, Institut Teknologi Telkom, Surabaya, Indonesia

Dominggo Bayu Baskara, Industrial Engineering Department, Faculty of Industrial and Information Technology, Institut Teknologi Telkom Surabaya, Indonesia

Muhammad Miftahul Abidin and Hendrawan Widianto, Industrial Engineering Department, Faculty of Industrial and Information Technology, Institut Teknologi Telkom Surabaya, Indonesia

ID 258 Market Feasibility Study for Conversion of Diesel-powered into Electric Truck

Benazir Imam Arif Muttaqin, Industrial Engineering Department, Faculty of Industrial and Information Technology, Institut Teknologi Telkom Surabaya, Indonesia

Dominggo Bayu Baskara, Industrial Engineering Department, Faculty of Industrial and Information Technology, Institut Teknologi Telkom Surabaya, Indonesia

Terresa Indrajani Kusuma and Yudith Iqbal Dika Permana, Industrial Engineering Department, Faculty of Industrial and Information Technology, Institut Teknologi Telkom Surabaya, Indonesia

ID 259 The Requirements for Predictive Maintenance Strategy and the Data Required for Successful Implementation, for the case of Nutrunners

Stephen Matope, Associate Professor, Department of Industrial Engineering Stellenbosch University, Industrial Engineering Building, Banghoek Rd, South Africa

Emma L Bekker, Masters Student, Department of Industrial Engineering Stellenbosch University, Industrial Engineering Building, Banghoek Rd, South Africa

ID 260 The Designing of Swivel Chair For Bending Machine Work Station At Pt Graha Adikarya Logam

Andre Agashi, Frans Yusuf Daywin, Adianto, Lina Gozali, Industrial Engineering Department, Mechanical Engineering Department, Universitas Tarumanagara, Jakarta

Agustinus Purna Irawan, Mechanical Engineering Department, Universitas Tarumanagara, Jakarta

ID 261 Halal Assurance System for Leather Industry in Indonesia: Future Research Directions

Tengku Nurainun, Hayati Habibah, Abdul Talib, and Khairur Rijal Jamaludin, Razak Faculty of Technology and Informatics, Universiti Teknologi Malaysia, Kuala Lumpur, Malaysia

Nilda Tri Putri, Department of Industrial Engineering, Andalas University, Padang, Indonesia

Fitra Lestari, Industrial Engineering Department, Sultan Syarif Kasim State Islamic University, Riau, Indonesia

ID 263 Modification of Chocolate Stirring Machine Using Reverse Engineering and VDI 2221 Method

Calvin, Frans Jusuf Daywin, Adianto, Lina Gozali, , Wilson Kosasih, Industrial Engineering Department,

Agustinus Purnairawan, Mechanical Engineering Department, Universitas Tarumanagara, Jakarta

ID 264 Redesign of Smart Trash Bin with Reverse Engineering and VDI 2221 Method

Christopher Gunawan, I Wayan Sukania, Frans Jusuf Daywin, Lina Gozali, Wilson Kosasih, Industrial Engineering Department, Universitas Tarumanagara, Jakarta

ID 265 Modification Of Potato Washing Machine By Adding Cutting Tool Using Reverse Engineering And Vdi 2221 Method

Fransiscus Felix, Frans Jusuf Daywin, Adianto, Lina Gozali, Agustinus Purnairawan, Industrial Engineering Department, Universitas Tarumanagara, Jakarta, Indonesia

ID 266 MODIFICATION DESIGN OF SHREDDER MASK WITH DISINFECTANT SPRAYER BY USING REVERSE ENGINEERING AND VDI 2221 METHODS

Immanuel Beckham, Frans Jusuf Daywin, I Wayan Sukania, Lithrone Laricha Solomon, Lina Gozali, Industrial Engineering Department, Universitas Tarumanagara, Jakarta

ID 267 MODIFICATION OF GROUP HEAD COFFEE MACHINE USING REVERSE ENGINEERING AND VDI 2221 METHODS

Willy Andreas, Frans Jusuf Daywin, Lithrone Laricha, Lina Gozali, Agustinus Purnairawan, Industrial Engineering Department, Universitas Tarumanagara, Jakarta, Indonesia

ID 274 Comparison of crossover operators in genetic algorithm for vehicle routing problems

Eric Wibisono, Iris Martin, and Dina Natalia Prayogo, Department of Industrial Engineering, Faculty of Engineering, University of Surabaya, Surabaya, Indonesia

ID 275 The Pull and Push Factors Towards the Adoption of Agricultural Revolution 4.0 (AR4.0) for Agro-Food Supply Chain (AFSC) in SMIs Agro-based in Malaysia

Nur Fatin Munirah Aris and Fazleen Abdul Fatah, Faculty of Plantation and Agrotechnology, Universiti Teknologi Mara Cawangan Melaka Kampus Jasin, 77300 Merlimau, Melaka, Malaysia

Suhaiza Hanim Mohamad Zailani, Department of Operations Management and Information System, Faculty of Business and Accountancy,

University of Malaya, Kuala Lumpur, Malaysia

ID 277 Automating Inventory Management in Distribution Centers of a Leading FMCG Industry Player in the Beverage Market A Supply Chain 4.0 Journey

Satur Dorado Apolonio, School of Industrial Engineering, Mapua University, 658 Muralla St, Intramuros, Manila 1002 Metro Manila, Philippines

Marvin I. Noroña, School of Industrial Engineering, Mapua University., 58 Muralla St, Intramuros, Manila 1002 Metro Manila, Philippines

ID 278 Indonesian Industrial Estate Firms Sustainability Conceptual Framework

Christina Wirawan, Department of Industrial Engineering, Maranatha Christian University, Bandung, Indonesia

Gatot Yudoko, Yuliani Dwi Lestari, School of Business Management, Bandung Institute of Technology, Bandung, Indonesia

ID 279 Machine Productivity Improvement of the Test-To-Pack Process Line in the Production of SMD Power Inductors Using DMADV Approach and ProModel Simulation

Angelo Vincent Z. Bautista, School of Graduate Studies, Mapua University, 658 Muralla St., Intramuros, Manila 1002, Philippines

Marvin I. Noroña, School of Industrial Engineering and Engineering Management Mapúa University, 658 Muralla St., Intramuros, Manila, Philippines

ID 281 Optimal Portfolio Using Single Index Model and Capital Asset Pricing Model (CAPM) in Covid-19 Pandemic Era

Tieka Trikartika Gustyana, Candra Wijayangka, School of Postgraduate Program, Universitas Pendidikan Indonesia, Bandung, Indonesia, And School of Economic and Business, Telkom University, Bandung, Indonesia

Pande Made Rahayu Srijayanti, School of Economic and Business, Telkom University, Bandung, Indonesia

Maya Sari, Ikaputera Waspada, Associate Professor, School of Postgraduate Program, Universitas Pendidikan Indonesia,

Bandung, Indonesia

ID 282 Empirical study of MOPSO and NSGA II comparison in multi-objective location routing problem incorporating the service level of delivery

Rachmat Parayoga and Anna Maria Sri Asih, Department of Mechanical and Industrial Engineering, Universitas Gadjah Mada, Indonesia

ID 284 Effect of Social Support on Elderly Welfare Using Structural Equation Modelling (SEM)

Restu Aji Nur Kahfi BP, Industrial Engineering Postgraduate Program, Universitas Islam Indonesia, Yogyakarta, Indonesia

Hari Purnomo, Industrial Engineering Program, Universitas Islam Indonesia, Yogyakarta, Indonesia

Ayudyah Eka Apsari, Industrial Engineering Program, Universitas Islam Batik Surakarta, Surakarta, Indonesia

ID 285 Simulation of Dynamic System to Assist Policy Formulation and Prevention and Mitigation Strategies Spread of COVID-19 in Medan

Meilita Tryana Sembiring, Sawaluddin, Anggi Ridho Habibie, Department of Industrial Engineering, Universitas Sumatera Utara, Medan, Indonesia

Wahyudi Sutopo, Professor, Department of Industrial Engineering, Past Head of Department of Industrial Engineering, Head of Industrial Engineering and Techno-Economics Research Group, Vice Dean for Human Resources, Finance, and Logistics, Faculty of Engineering, Universitas Sebelas Maret (UNS), Surakarta, Indonesia, President, IEOM Indonesia Chapter

ID 286 Capturing Profile of Halal Chicken Meat Slaughterhouse in Indonesia: A Clustering Case Study

Harwati, Department of Mechanical and Industrial Engineering, Faculty of Engineering, Universitas Gajdah Mada, Yogyakarta, Indonesia, Department of Industrial Engineering, Faculty of Industrial Technology, Universitas Islam Indonesia, Yogyakarta, Indonesia

Anna Maria Sri Asih, Bertha Maya Sopha, Department of Mechanical and Industrial Engineering, Faculty of Engineering, Universitas Gajdah Mada, Yogyakarta, Indonesia

ID 292 Selection of E-Grocery Platform Strategy in Highly Urbanized Cities in the Philippines Using Analytic Hierarchy Process (AHP) and Structural Equation Modeling (SEM)

Antoinnette R. Acosta, Angeline Patricia Fae B. Aben, and Marvin I. Noroña, School of Industrial Engineering and Engineering Management, Mapúa University, Manila, Philippines

ID 294 Use of Internet of Things (IoT) in the Design of an Inventory Management System for Omni-Channel Retailing

Sheila Mae Carungay, Francispito Quevedo, and Venusmar Quevedo, Department of Industrial Engineering, College of Engineering, Adamson University, Manila, Philippines

ID 295 Use of Internet of Things (IoT) in the Design of an Inventory Management System for Omni-Channel Retailing

Sheila Mae Carungay, Francispito Quevedo and Venusmar Quevedo Department of Industrial Engineering, College of Engineering Adamson University, Manila, Philippines

ID 297 Big Data Analytics Adoption Intention Among Small & Medium Enterprises in Malaysia : A Conceptual Framework

Chong Siu Hou, Graduate School of Business, Faculty of Business and Accountancy, Universiti Malaya, Kuala Lumpur,

Malaysia

Azmin Azliza Aziz, Department of Operations and Management Information Systems, Faculty of Business and Accountancy Universiti Malaya, Kuala Lumpur, Malaysia

Suhaiza Zailani, Department of Operations and Management Information Systems, Faculty of Business and Accountancy, Universiti Malaya

Kuala Lumpur, Malaysia

ID 298 Lean - Agile Workforce Model for Traffic Enforcers

Joshua M. Blas, Researcher, Junior Content Development Executive, Environmental Compliance Consultants Int'l. Corp., Makati City, Philippines

Jean Loiriane B. Ardales, Researcher, Purchasing Associate, AllValue Holdings Inc., Muntinlupa City, Philippines

Dr. Venusmar C. Quevedo, PIE, ASEAN Eng., Research Adviser, Vice President for Administration, Adamson University,

Maida A. Dela Cueva, PIE, ASEAN Eng., Research Co-Adviser, Professor, Industrial Engineering Department, Adamson University, Philippines

ID 299 Development of a Framework for Household Solid Waste Management in an Urban Locality

John Deither B. Balicat, Industrial Engineering Department, College of Engineering, Adamson University, Manila, Philippines Rachelle Anne P. Gonzalez, Industrial Engineering Department, College of Engineering, Adamson University, Manila, Philippines

Sheily V. Mendoza, Professor, Industrial Engineering Department, Adamson University, Manila, Philippines

Venusmar C. Quevedo, Professor, Industrial Engineering Department, College of Engineering, Vice President of Administration, Adamson University, Quality Assurance Evaluator, Adamson University, Program Evaluator, Centers for Excellence and Centers for Development, Chairman, Industrial Engineering Certification Board, Adamson University, Manila, Philippines

ID 300 Analyze the Proper of Instagram as the Trends of Social Media: Why do Young Entrepreneurs Choose It?

Cut Irna Setiawati, Business Administration Department, Telkom University, Jl. Telekomunikasi No. 1, Bandung, Indonesia

Ariestya Dwinugraha Siswanto, Business Administration Department, Telkom University, Jl. Telekomunikasi No. 1, Bandung, Indonesia

ID 304 Performance Management System for Industrial Water Management Company Using Balanced Scorecard Model

Hamdani, Department of Technology Management, Institut Teknologi Sepuluh Nopember, Surabaya, Indonesia

Iwan Vanany, Department of Industrial and Systems Engineering, Institut Teknologi Sepuluh Nopember, Surabaya, Indonesia, Kampus ITS, Sukolilo, 60111, Indonesia

ID 320 Economic Ordering Policy of Deterioration Item with Time Varying Holding Cost under Backlogging and Permissible Delay in Payments

Laila Nafisah, Yuli Dwi Astanti, Ahmad Muhsin, Department of Industrial Engineering, Faculty of Industrial Engineering, UPN Veteran Yogyakarta, Indonesia

ID 324 Heterogeneous Vehicle Routing Problem with Vehicle Dependent Travel Time for Urban Freight Transportation

Fran Setiawan and Kevin Harvest Novialdo, Industrial Engineering Department, Faculty of Industrial Technology, Universitas Katolik Parahyangan, Bandung, Indonesia

ID 327 What Makes Entrepreneurial Intention for Students in Technological University Works During Covid-19 Period: A Behavioral Assessment

Reny Nadlifatin, Gogor Arif Handiwibowo, Rr Ratih Laksitowati, and Bobby Ardiansyahmiraja, Insititut Teknologi Sepuluh Nopember, Campus ITS Sukolilo, Surabaya 60115, Indonesia

Satria Fadil Persada, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Malang, Indonesia 65154, Indonesia

Anak Agung Ngurah Perwira Redi, Industrial Engineering Department, BINUS Graduate Program-Master of Industrial Engineering, Bina Nusantara University, Jakarta 11480, Indonesia

ID 331 The Use of Gamification Tools to Boost Students Engagement and Motivation

Renée Hannah A. Niro, Via Shereen L. Daracan, Arvin Joseph D. Pizarro, and Josephine D. German, School of Industrial Engineering and Engineering Management, Mapúa University, 685 Muralla St., Intramuros, Manila 1002, Philippines

ID 332 MedReS: A Charged Medication Report System for a General Hospital in the Philippines

Cielo Jefferson F. de Castro, Klarence Emmanuel F. Decena, Ken Joshua U. Rebosura, and Josephine D. German, School of Industrial Engineering and Engineering Management, Mapúa University, Intramuros, Manila, Philippines

ID 334 Developed concept and approach of Engineering Design course in the Fourth Industrial Revolution (IR 4.0): A study case in Mechanical Engineering

Aditya Rio Prabowo and Ubaidillah, Department of Mechanical Engineering, Universitas Sebelas Maret, Surakarta, Central Java 57126, Indonesia

Fajar Budi Laksono, Division of Research and Development, DTECH-Engineering, Salatiga, Central Java 50742, Indonesia

ID 342 Development of Chocolate Beverage Products by Considering Consumer Preferences

Nilda Tri Putri, Department of Industrial Engineering, Faculty Engineering, Andalas University, Padang, West Sumatra

Muthia Sukma, Department of Industrial Engineering, Faculty Engineering, Andalas University, Padang, West Sumatra

ID 343 Design of Halal Assurance and Food Safety Tracking System on the Production of Palm Sugar

Desriyenti, Nilda Tri Putri and Alexie Herryandie Bronto Adi, Department of Industrial Engineering, Faculty of Engineering, Andalas University,

Padang, Indonesia

ID 347 Health Vulnerability to CoVid-19: A Barangay Level Assessment for Bocaue, Bulacan

Alexandria Nicole A. Caalim, Christine Angel Aquino, Risha Caitlin V. Bongabong, Samantha Angela Osia, and Ardvin Kester S. Ong, Young Innovators Research Center, Mapúa University, Manila, Philippines, 658 Muralla St., Intramuros, Manila 1002, Philippines

Josephine D. German, School of Industrial Engineering and Engineering Management, Mapúa University, Manila, Philippines, 658 Muralla St., Intramuros, Manila 1002, Philippines

ID 348 Indonesian Construction Sectors: An Analysis from the Economic Perspective

Ubaidillah Zuhdi, Faculty of Business Economics and Digital Technology, Universitas Nahdlatul Ulama Surabaya, Surabaya, East Java, Indonesia

Mochamad Yunus and Yamato Tan, Faculty of Engineering, University of Pakuan, Bogor 16143, West Java, Indonesia

Rizqi Putri Nourma Budiarti and Hidayatul Khusnah, Faculty of Business Economics and Digital Technology, Universitas Nahdlatul Ulama Surabaya, Surabaya 60237, East Java, Indonesia

ID 349 Inventory and Purchasing Analysis of Main Distribution Materials: Case Study in an Electrical Company Unit

Bagus Panuntun, Department of Technology Management, Institut Teknologi Sepuluh Nopember, Surabaya, Indonesia

Iwan Vanany, Department of Industrial and Systems Engineering, Institut Teknologi Sepuluh Nopember, Surabaya, Indonesia, Kampus ITS, Sukolilo, Indonesia

ID 350 A Case Study on Educational Level and Gender Differences on Academic Self-Concept of Student

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

Rocelle S. Calandria, Ella D. Delizo, Ellaine Genesis S. Lera, John Aldrin C. Selda, Karl Christian B. Toledo and David Brian B. Vizmanos, Bachelor of Science in Industrial Engineering, Malayan Colleges Laguna under Mapua Institute Technology at Laguna, Pulo-Diezmo Road, Cabuyao, 4025 Laguna

ID 351 Effects of Online Learning Capacity on the Academic Stress of Students: A Case Study during COVID-19 Pandemic

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

Angelica R. Barcelon, Kyla Clarrizze M. Enriquez, Nhea Mica M. Llasos, Pia Alexis C. Lomague, Mary Abcdee C. Remoquillo, Jenelle E. Silverio, A Mapua Institute of Technology at Laguna, Malayan Colleges Laguna, Pulo-Diezmo Road, Cabuyao City

ID 352 Perceived Effect of Home Environmental Factors to the Academic Stress of College Students: A Case Study during COVID Pandemic

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

Jorell Ansell Basical, Elaissa Denapo, Justin Jorey Estimado, Jason Maynard Lao, Daniel Mallari, Karen Manalo, Johnvyll Errol Rosales, Mapua Institute of Technology at Laguna, Malayan Colleges Laguna, Pulo Diezmo Road, Cabuyao, Laguna 4025

ID 353 A Case Study Measuring the Quality of Life of Students: Before and During COVID-19 Pandemic

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

John Renz P. Dayrit, Dominic C. De Leon, Geo Mari S. Famero, John Paul N. Garcia, Raven L. Granzore, Mapua Institute of Technology at Laguna, Malayan Colleges Laguna, Pulo Diezmo Road, Cabuyao, Laguna 4025

ID 354 Effects of Academic Stress on the Academic Performance of Students: A Case Study during Pandemic

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

Joe-Ghie Aniban, Joshua Miguel Catigum, Danna Leigh Dy, Carl Lauren James Pamandanan, Trina Angela Tolentino, Mapua Institute of Technology at Laguna, Malayan Colleges Laguna, Pulo Diezmo Road, Cabuyao, Laguna 4025

ID 357 Profitability, Liquidity, Advertising Cost and Firm Size Towards Tax Aggressivneness In Indonesia

Maya Safira Dewi, Accounting Department, Faculty of Economics and Communication, Bina Nusantara University, Jakarta, Indonesia, 11480, Tunku Puteri Intan Safinaz School of Accountancy, Universiti Utara Malaysia, 06010 UUM Sintok, Kedah,

Malaysia

Idawati Ibrahim, Tunku Puteri Intan Safinaz School of Accountancy, Universiti Utara Malaysia, 06010 UUM Sintok, Kedah, Malaysia

Check Derashid, Tunku Puteri Intan Safinaz School of Accountancy, Universiti Utara Malaysia, 06010 UUM Sintok, Kedah, Malaysia

Lily Cyntiany, Accounting Department, Faculty of Economics and Communication, Bina Nusantara University, Jakarta, Indonesia, 11480

ID 358 The Effect of Leverage, Profitability, Sales Growth, and Thin Capitalization Towards Tax Avoidance on Service Companies in The Trade, Service, and Investment Sector Listed on The Indonesia Stock Exchange

Maya Safira Dewi, Accounting Department, Faculty of Economics and Communication, Bina Nusantara University, Jakarta, Indonesia

Tunku Puteri Intan Safinaz School of Accountancy, Universiti Utara Malaysia, 06010 UUM Sintok, Kedah, Malaysia

Idawati Ibrahim, Tunku Puteri Intan Safinaz School of Accountancy, Universiti Utara Malaysia, 06010 UUM Sintok, Kedah, Malaysia

Check Derashid, Tunku Puteri Intan Safinaz School of Accountancy, Universiti Utara Malaysia, 06010 UUM Sintok, Kedah, Malaysia

Maria, Accounting Department, Faculty of Economics and Communication, Bina Nusantara University, Jakarta, Indonesia

ID 361 Queue System Analysis at Starbucks Stores

Farah Rahmatika and Jasmine Shafa Khairunnisa, Faculty of Engineering, Industrial Engineering, Pembangunan Nasional Veteran Jakarta University, Jalan RS Fatmawati, Pondok Labu, South Jakarta

Akhmad Nidhom Nurzaman, Lecturer of Industrial Engineering, Faculty of Engineering, Pembangunan Nasional Veteran Jakarta University, Indonesia, South Jakarta

Fitra Lestari, Asosciate Professor, Department of Industrial, Engineering, Head of Department of Industrial Engineering, Member, IEOM Indonesia Chapter, Sultan Syarif Kasim State Islamic Unversity, Riau, Indonesia

ID 363 Analysis of Automatic Toll Gate Payment Queue System

Najibatul Mujahidah and Hasna Rafifah Azmi, Student, Industrial Engineering Department, Faculty of Engineering, Veteran National Development University of Jakarta, Indonesia

Akhmad Nidhomuz Zaman, Lecturer, Industrial Engineering Department, Faculty of Engineering, Veteran National Development University of Jakarta, Indonesia

Fitra Lestari, Department of Industrial Engineering, Member, IEOM Indonesia Chapter, Sultan Syarif Kasim State Islamic University, Riau, Indonesia

ID 364 Organic Food in Supply Chain: Literature Review

Ismi Zahria and Iwan Vanany, Department of Industrial and Systems Engineering, Institut Teknologi Sepuluh Nopember, Surabaya, Indonesia, Kampus ITS, Sukolilo, 60111, Indonesia

ID 367 Enhancing Innovations through the Distance-Learning Studio: The Sociological Institutionalism Perspective

Chrisna T. Permana, Paramita Rahayu, and Isti Andini, Urban and Regional Planning Programme, Faculty of Engineering, The University of Sebelas Maret, Kentingan, Surakarta, Indonesia

ID 369 The Effect Of External Auditor Quality, Profit Quality, Fixed Asset Intensity, Liquidity, And Corporate Risk On Tax Aggressiveness Of Property And Real Estate Companies

Maya Safira Dewi, Accounting Department, Faculty of Economics and Communication, Bina Nusantara University, Jakarta, Indonesia

Idawati Ibrahim, Tunku Puteri Intan Safinaz School of Accountancy, Universiti Utara Malaysia, 06010 UUM Sintok, Kedah, Malaysia,

Check Derashid, Tunku Puteri Intan Safinaz School of Accountancy, Universiti Utara Malaysia, 06010 UUM Sintok, Kedah, Malaysia

Dinda Niesya Hutari, Accounting Department, Faculty of Economics and Communication, Bina Nusantara University, Jakarta, Indonesia

ID 370 THE EFFECT OF CEO OVERCONFIDENCE, CAPITAL INTENSITY, ADVERTISING EXPENSE, AND BOARD GENDER DIVERSITY ON TAX AVOIDANCE

Maya Safira Dewi, Accounting Department, Faculty of Economics and Communication, Bina Nusantara University, Jakarta, Indonesia

Idawati Ibrahim, Tunku Puteri Intan, Safinaz School of Accountancy, Universiti Utara Malaysia, 06010 UUM Sintok, Kedah, Malaysia

Check Derashid, Tunku Puteri Intan Safinaz School of Accountancy, Universiti Utara Malaysia, 06010 UUM Sintok, Kedah, Malaysia

Larasati, Accounting Department, Faculty of Economics and Communication, Bina Nusantara University, Jakarta, Indonesia

ID 372 Analysis of Waiting Time And Worker Utilization On A Gas Station In Indonesia

Indracapa Bhuwana Dewandaru and Dimas Aditya, Student, Industrial Engineering Department, Faculty of Engineering, Veteran National, Development University of Jakarta, Indonesia

Akhmad Nidhomuz Zaman, Lecturer, Industrial Engineering Department, Faculty of Engineering, Veteran National Development University of Jakarta, Indonesia

Fitra Lestari, Department of Industrial Engineering, Member, IEOM Indonesia Chapter, Sultan Syarif Kasim State Islamic Unversity, Riau, Indonesia

ID 374 Analysis of Queue System Simulation on Banks with Arena System Modeling

Ihda Amalina and Bryan Siburian, Student, Department of Industrial Engineering, Faculty of Engineering, National Development University of Veterans Jakarta, Indonesia

Akhmad Nidhomuz Zaman, Lecturer, Department of Industrial Engineering, Faculty of Engineering, National Development University of Veterans Jakarta, Indonesia

Fitra Lestari, Department of Industrial Engineering, Member, IEOM Indonesia Chapter, Sultan Syarif Kasim State Islamic University, Riau Islands Province, Indonesia

ID 377 Developing Simulation Optimization to Minimize Total Inventory Cost under Uncertain Demand

Mufida Nur Khasanah and Hayati Mukti Asih, Department of Industrial Engineering, Universitas Ahmad Dahlan, Bantul, Yogyakarta 55191 Indonesia

ID 382 Ergonomic Assessment on the Mental Workload of Work from Home Employees

Sheeno F. Dasmariñas, John Margel A. Otalla, Kimberly Joy H. Perea, Industrial Engineering Department, Technological Institute of the Philippines - Manila

Janina Elyse A. Reyes, Industrial Engineering Department, Technological Institute of the Philippines - Manila

ID 384 Sustainability Awareness and Attitude to Sustainability among Entrepreneurial Students: Cultural Analysis and Level Measurement

Mulyani Karmagatri, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia 11480,

Benjamin Casteillo, New World Together, Bali, Indonesia

ID 385 Queue System Analysis in Drive-Thru Swab Test of COVID-19 in A Hospital

Muhammad Rafli and Muhammad Rafli Lisdiarto, Student, Industrial Engineering Department, Faculty of Engineering, Universitas Pembangunan Nasional Veteran Jakarta, Indonesia

Akhmad Nidhomuz Zaman, Lecturer, Industrial Engineering Department, Faculty of Engineering, Universitas Pembangunan Nasional Veteran Jakarta, Indonesia

Fitra Lestari, Department of Industrial Engineering, Member, IEOM Indonesia Chapter, Universitas Islam Negeri Sultan Syarif Kasim Riau, Indonesia

ID 386 Simulation Analysis of Cashier Service Queue System at a Supermarket Using Arena Simulation

Daffa Raditya Wibowo and Stefanus Hergiyan , Student, Industrial Engineering Department, Faculty of Engineering, Veteran National Development, University of Jakarta, Indonesia

Akhmad Nidhomuz Zaman, Lecturer, Industrial Engineering Department, Faculty of Engineering, Veteran National Development University of Jakarta, Indonesia

Fitra Lestari, Department of Industrial Engineering, Member, IEOM Indonesia Chapter, Sultan Syarif Kasim State Islamic University, Riau, Indonesia

ID 388 Critical Success Factors of Asset Management Software Implementation in Construction Indonesia

Abdul Rochim, Master of Industrial Engineering Student, Universitas Mercu Buana, Meruya Selatan No. 1 Street, Kembangan, Jakarta, Indonesia

Zulfa Fitri Ikatrinasari, Master of Industrial Engineering Lecturer, Universitas Mercu Buana, Kembangan, Jakarta, Indonesia

ID 389 Automated Material Handling System and Inspection System Model for Flexible Manufacturing Systems Learning

Ari Setiawan, Hans Pratama, Kelvin Setyadi, Vina Sari Yosephine, Dept. of Industrial Engineering, Institut Teknologi Harapan Bangsa, Bandung, Indonesia

ID 390 Analysis of Workers' Physical and Mental Complaints in Conducting Online Meetings in the New Normal Era

Deni Saputra, Furniture Industry Business Management Study Program, Furniture and Wood Processing Industry Polytechnic, Kendal, Indonesia

Merisha Hastarina, Industrial Engineering Study Program, University of Muhammadiyah Palembang, Palembang, Indonesia

ID 391 Kansei Engineering and Design Thinking Methodology for Product/Service Design

Markus Hartono, Department of Industrial Engineering, University of Surabaya, Jalan Raya Kalirungkut, Tenggilis, Surabaya

ID 392 Process Improvement of COVID-19 Vaccination System by utilizing Queuing Theory and ProModel Simulator on Vaccination Facilities in Metro Manila

Jolly Ann J. Villaflores, Maria Ziziana A. Llegos, Unique Kate L. Guna, Mary Antonette F. Faminiano, Larianne D. Cruzado, Kyla R. Mendoza, Industrial Engineering Department, Technological Institute of the Philippines - Manila

Janina Elyse A. Reyes, Industrial Engineering Department - Adviser, Technological Institute of the Philippines

ID 394 Lean Six Sigma DMAIC Implementation to reduce Total Lead Time Internal Supply Chain Process

Deri Maryadi, Student, Master of Industrial Engineering, Faculty of Engineering, Universitas Mercu Buana Jakarta, Jakarta, Indonesia

Bonivasius Prasetya Ichtiarto, Lecturer, Master of Industrial Engineering, Faculty of Engineering, Universitas Mercu Buana Jakarta, Jakarta, Indonesia

ID 395 Working Posture Improvement on Batik Coloring Process using Rapid Upper Limb Assessment Method

Agatha Sola Gracia Christy, Adelia Vira Andhini, Sinta Wulandari, Industrial Engineering Major, Faculty of Engineering, Dian Nuswantoro University, Semarang, Indonesia

ID 396 A Strategy Design for Logistics Company: J&T Express Case Analysis Using Blue Ocean Strategy

Agus Mansur, Department of Industrial Engineering Department Universitas Islam Indonesia, Yogyakarta, Indonesia

Naufal. G. Salsabil, Department of Industrial Engineering, Faculty of Industrial Technology, Universitas Islam, Indonesia, Yogyakarta, Indonesia

ID 397 Does it Pay to be Perfect? A Lesson Learnt from CV XYZ

Christopher Hanjaya and Karina Agustin, International Business Engineering Program, Department of Industrial Engineering, Petra Christian, University, Surabaya, Indonesia

Hanijanto Soewandi, Lecturer, Department of Industrial Engineering, Vice President of Micro Strategy Technology Company, Towers Crescent Plaza Tysons Corner, VA 22182 USA

ID 398 Identification of At-Risk Behaviors among Fuel Station Consumers in Indonesia

Aryo Wibowo, Doctor Candidate, Faculty of Public Health, Universitas Indonesia, Depok, Jawa Barat, Indonesia

Fatma Lestari and Robiana Modjo, Professor and Lecturer, Faculty of Public Health, Universitas Indonesia, Depok, Jawa Barat, Indonesia

ID 400 Quality Improvement with the DMAIC Approach Using the Implementation of the Benchmarking and KPI Methods

Hibarkah Kurnia, Choesnul Jaqin and Humiras Hardi Purba, Master of Industrial Engineering Department, Mercu Buana University, Jln Menteng No. 29 Jakarta 10340, Indonesia

ID 402 Solar Renewable Energy Potential and Development in Malaysia, Indonesia, Vietnam and Japan

Mohamad Yuszaimie Abdul Hamid, Ku Nur Afrina Ku Azman Shah, Nor Akmal Fadil, Jafri Mohd Rohani, Mohd Zamri Mohd Yusop, School of Mechanical Engineering, Faculty of Engineering, Universiti Teknologi Malaysia, Johor, Malaysia

Nguyen Duc Tuyen, School of Electrical Engineering, Hanoi University of Science and Technology, Hanoi, Vietnam

Budi Hartono, Mechanical and Industrial, Engineering Department, Gadjah Mada University, Yogyakarta, Indonesia

ID 404 Cost Minimization of Feeds in RGS Hog Farm in the Philippines: An Operation Research Approach

Jovelyn C. Borlas, Joanne Christine C. Rovedillo, Frances O. Sotto, Ma. Teodora E. Gutierrez, Arriane A. Palisoc, Department of Industrial, Engineering, College of Engineering and Architecture, Technological Institute of the Philippines – Quezon City, Cubao, Quezon City, Philippines

ID 405 Development Of Social Media Applications To Support Online Learning Of Computer Simulation Course

Singgih Saptadi, Stefanus Robert Marsiamto, Muhammad Farhan Arief, Purnawan Adi Wicaksono, Denny Nurkertamanda, Yusuf Widharto Industrial Engineering Departement, Diponegoro University Semarang, Central Java, Indonesia, 50275

ID 406 Improvement of AMG Rice Dealer Workplace Safety Using Ergonomics and Six Sigma Tools

Gavin Frederick A. Bautista, Edmar M. Garcia, Students, Industrial Engineering Department, Technological Institute of the Philippines - Manila

Quiapo, Manila, Philippines

Nellaine P. Delos Santos, Student, Industrial Engineering Department Technological Institute of the Philippines – Quezon City, Quezon City, Philippines

Janina Elyse Reyes, Professor, Industrial Engineering Department Technological Institute of the Philippines - Manila, Quiapo, Manila, Philippines

ID 412 Technical Analysis of Biomass Bamboo for Generating Electrical Energy Using APL Power Pallet

Ku Nur Afrina Ku Azman Shah, Mohamad Yuszaimie Abdul Hamid, Mohd Zamri Mohd Yusop, Jafri Mohd Rohani, Nor Akmal Fadil, Mohd Faizal Hasan, Mohd Fairus Mohd Yasin, Natrah Kamaruzaman, Engku Mohd Nazim Engku Abu Bakar, Syahrullail Samion and Mohd Yazid Yahya

School of Mechanical Engineering, Faculty of Engineering, Universiti Teknologi Malaysia, Johor, Malaysia

Norhuda Abdul Manaf, Department of Chemical and Environmental Engineering, Malaysia-Japan International Institute of Technology, Universiti Teknologi Malaysia, Kuala Lumpur, Malaysia

Budi Hartono, Mechanical and Industrial Engineering Department, Gadjah Mada University, Yogyakarta, Indonesia

Nguyen Duc Tuyen, School of Electrical Engineering, Hanoi University of Science and Technology, Hanoi, Vietnam

Tanemura Masaki, Department of Physical Science and Engineering, Nagoya Institute of Technology, Showa-ku, Aichi, Japan

Abdul Samad Ahmad and Ashaari Ramli, MyBamboo Sdn. Bhd., Subang Jaya, Malaysia

ID 416 Developed SERVQUAL Model in Measuring Customer Satisfaction for Ferry Service in Langkawi

Muhammad Nadzmi Muhammad Idlan, Graduate Research Assistant, Malaysia Institute of Transport (MITRANS), Universiti Teknologi MARA (UiTM), 40450 Shah Alam, Selangor, Malaysia

Dr.Harlina Suzana Jaafar, Associate Professor, Department of Technology and Supply Chain Management, Faculty of Business and Management, Universiti Teknologi Mara, Selangor Branch, Puncak Alam Campus, 42300 Bandar Puncak Alam, Selangor, Malaysia

ID 417 Age-Dependent Inventory Routing Problem Model for Medical Waste Collection

Ridho Syahrial Ibrahim, and Ahmad Rusdiansyah, Department of Industrial and Systems Engineering, Institut Teknologi Sepuluh Nopember, Surabaya, Indonesia

ID 419 Optimization of Medical Personnel in Response to COVID-19 in the Philippines: A Working Time Scheduling Problem

Reiniel D. Allanic, Shahira S. Herrera, Stephanie Christine D. Landicho, Aracely Ruth DC.Ramiro, Romalyn L. Galingan, Ma. Teodora E. Gutierrez

Department of Industrial Engineering, College of Engineering and Architecture, Technological Institute of the Philippines – Quezon City, Cubao, Quezon City, Philippines

ID 421 Some Forms of Single Stage Queuing Systems Resulted from The Decomposition of Complex Supply Chain

Parama Kartika Dewa, Department of Industrial Engineering, Universitas Atma Jaya Yogyakarta, Yogyakarta, Indonesia

Petrus Setya Murdapa, Department of Industrial Engineering, Widya Mandala Surabaya Catholic University (UKWMS), Madiun, Indonesia

ID 422 Hub Location Problem Model to Determine the Location of Facilities by Considering Capacity and Routes

Virda Hersy Lutviana Saputri, Master Program in Industrial Engineering, Faculty of Engineering, Universitas Sebelas Maret, Surakarta 57126, Indonesia, Department of Industrial Engineering, Faculty of Science, Technology, Engineering, and Mathematics, Universitas Mahakarya Asia, Yogyakarta 55285, Indonesia

Wahyudi Sutopo and Muhammad Hisjam, Department of Industrial Engineering, Faculty of Engineering, Universitas Sebelas Maret, Surakarta 57126, Indonesia

ID 423 Feasibility Analysis of a Large Scale Floating Photovoltaic Power Plant Investment Using Financial Modeling with the Consideration of Uncertainties Factors

Sabrina Putri Kinanti, and Armand Omar Moeis, Industrial and Systems Engineering, Universitas Indonesia, Depok, Indonesia

Dimas Kaharudin, PT PJB Indonesia, Purwakarta, West Java, Indonesia

ID 424 Lean Manufacturing (LM) Implementation Literature Review Based on the K-Chart

Yuli Agusti Rochman, Industrial Engineering, Faculty of Engineering, Gadjah Mada University, Indonesia, Industrial Engineering, Faculty of Industrial Technology, Universitas Islam Indonesia, Indonesia

Muhammad K Kusumawan Herliansyah, Industrial Engineering, Faculty of Engineering, Gadjah Mada University, Indonesia

Andi Sudiarso, Department of Mechanical and Industrial Engineering, Faculty of Engineering, Universitas Gadjah Mada, Yogyakarta, Indonesia

ID 425 Finding the Originality of Research on the Application of Lean Manufacturing (LM) With the Development of Systematic Literature Review (SLR) and K Chart

Yuli Agusti Rochman, Industrial Engineering, Faculty of Engineering, Gadjah Mada University, Indonesia, Industrial Engineering, Faculty of Industrial Technology, Universitas Islam Indonesia, Indonesia.

Muhammad K Kusumawan Herliansyah, Industrial Engineering, Faculty of Engineering, Gadjah Mada University, Indonesia

Andi Sudiarso, Department of Mechanical and Industrial, Engineering, Faculty of Engineering, Universitas Gadjah Mada,

Yogyakarta, Indonesia

ID 426 Fuzzy Kano Model and E-SERV Qual Application to Evaluate Performance of E-Travel Services Website in Indonesia

Hie Jodhi Junianto, Aldi Winata, and Rida Zuraida, Industrial Engineering Department, Faculty of Engineering, Bina Nusantara University, Jakarta Indonesia

ID 427 Maintenance Management Analysis and Risk Assessment Using Failure Mode & Effect Analysis (FMEA) Method on Heavy Equipment Unit at PT XYZ

Salmaa Nabiilah Alwiyansyah, Fransisca Dini Ariyanti, Industrial Engineering Department, Faculty of Engineering, Bina Nusantara University

Jakarta, 11480, Indonesia

ID 428 Supply Chain Risk Assessment Implementation Using Failure Mode and Effect Analysis (FMEA). Case study on After-Sales Product Support at Heavy Equipment Company

Fransisca Dini Ariyanti, Tasya Putri Salsabilla, Industrial Engineering Department, Faculty of Engineering, Bina Nusantara University

Jakarta, 11480, Indonesia

ID 429 Sustainable Marketing Strategy: The Psychological Factors of Consumer

Doni Purnama Alamsyah, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Indonesia

Indriana, Business Creation Program, BINUS Business School Undergraduate Program, Bina Nusantara University, Indonesia

Chyntia Ika Ratnapuri, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Indonesia

ID 430 Marketing and Sustainability: The Concept of Green Awareness of Consumer

Doni Purnama Alamsyah, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Indonesia

Satrio Matin Utomo, Business Creation Program, BINUS Business School Undergraduate Program, Bina Nusantara University, Indonesia

ID 439 Investigating the Overall Equipment Effectiveness (OEE) of Die Casting Injection Machines using Productivity Analysis

Klint Allen A. Mariñas, Department of Industrial and Systems Engineering, Chung Yuan Christian University, Taoyuan City,

Yung-Tsan Jou, Chairman, Department of Industrial and Systems Engineering, Chung Yuan Christian University, Taoyuan City, Taiwan

Riana Magdalena Silitonga, Department of Industrial and Systems Engineering, Chung Yuan Christian University, Taoyuan City, Taiwan

ID 441 Small Medium Enterprises in indonesia: A Retrospective of The Research Journey

Agung Purnomo and Riesta Devi Kumalasari, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia

Nur Afia and Andre Septianto, English Language Education Department, Universitas Nahdatul Ulama Sidoarjo, Sidoarjo

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

ID 442 A Bibliometric Overview of Universal Basic Income Study

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

Nur Asitah, Primary Education Department, Universitas Nahdatul Ulama Sidoarjo, Sidoarjo 61218, Indonesia

Abdul Aziz, Accounting Department, Sekolah Tinggi Ilmu Ekonomi Mahardhika, Surabaya 60234, Indonesia

Yanu Endar Prasetyo, Department of Rural Sociology, University of Missouri, Missouri 65201, United States

Anita Kartika Sari, Management Department, Sekolah Tinggi Ilmu Ekonomi Mahardhika, Surabaya 60234, Indonesia

ID 443 A Study of Tourism Publication in Indonesia Using Bibliometric Approach

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

Nuzula Firdausi, English Language Education Department, Universitas Nahdlatul Ulama Sidoarjo, Sidoarjo 61218, Indonesia

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

Dian Utami Sutiksno, Business Administration Department, Politeknik Negeri Ambon, Ambon 97234, Indonesia,

Cokorda Javandira, Agrotechnology Department Universitas Mahasaraswati Denpasar, Denpasar 80233, Indonesia

ID 444 Half-Century of the Development Policy Study in ASEAN: A Bibliometric Analysis

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

Triana Susanti, Accounting Department, Sekolah Tinggi Ilmu Ekonomi Mahardhika, Surabaya 60234, Indonesia

Mega Firdaus, English Language Education Department, Universitas Nahdatul Ulama Sidoarjo, Sidoarjo 61218, Indonesia

Anita Kartika Sati, Management Department, Sekolah Tinggi Ilmu Ekonomi Mahardhika, Surabaya 60234, Indonesia

ID 445 Fourth Industrial Revolution in Indonesia: Lesson from Literature Mapping through Bibliometric Review

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

Andre Septianto, Chemical Engineering Department, Universitas Nahdlatul Ulama Sidoarjo, Sidoarjo 61218, Indonesia,

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

Muhammad Mansur Yafi, Industrial Engineering Department, Universitas Nahdlatul Ulama Sidoarjo, Sidoarjo 61218, Indonesia

Raden Ayu Mutiara Artha Lestari, Environmental, Engineering Department, Universitas Kebangsaan, Bandung 40263, Indonesia

Alyssa Gielyn D. Lustina, Darren F. Derige, Princess Dy R. Padagdag, Rochelle Phoebe C. Segovia, and Ardvin Kester S. Ong, Young Innovators Research Center, Mapúa University, Manila, Philippines, 658 Muralla St., Intramuros, Manila 1002, Philippines

Josephine D. German, School of Industrial Engineering and Engineering Management, Mapúa University, Manila, Philippines, 658 Muralla St., Intramuros, Manila 1002, Philippines

ID 448 Analysis Fluctuation of Stock Price of Mining Companies that Listed on Indonesia Stock Exchange Before and After Covid-19 Pandemic

Zahran Tiasufa, Endang Chumaidiyah, Industrial Engineering Department, School of Industrial Engineering, Telkom University, Bandung, Indonesia

ID 454 Decision-Making Process to Improve Efficiency and Effectiveness of The Remediation Planning and Implementation Process: a case study of an oil and gas company in Indonesia

Yorry Franky Simanjuntak and Gatot Yudoko, School of Business and Management, Bandung Institute of Technology, Indonesia

ID 455 Designing E-Business Startup: Potato Indofarm

Haryadi Sarjono, Management Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia,

Heppy Yohanes, Theology Department, Master of Theology Program, STT Bethel The Way, Jakarta, Indonesia

Andreas Eko Nugroho, Theology Department, Master of Theology Program, STT Bethel The Way Jakarta, Indonesia

ID 456 The Role of Culture in Shaping Entrepreneurial Leader Behavior

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

ID 457 Artificial Intelligence and Covid-19: A Bibliometric Analysis

Lamar Aljahdali, Aichetou Mohamed Sidiya, Joud Kaki, Computer Science Department, Effat University, College of Engineering, Effat University, Jeddah, Saudi Arabia

Tayeb Brahimi, Energy and Technology Research Center, Natural Science, Natural Science, Mathematics and Technology Unit, College of Engineering, Effat University, Jeddah, Saudi Arabia

ID 458 Improving Safety Culture and Increasing Driver's Safety Awareness of Intercity Bus in The Greater Jakarta Area

Dian Mardi Safitri and Nora Azmi, Department of Industrial Engineering, Faculty of Industrial Technology, Universitas Trisakti, Jl Kyai Tapa no 1 Jakarta, Indonesia

ID 461 Quality Improvement of Bolt Welding M6 X 12 with Six Sigma Method and Multi Attribute Failure Mode Analysis (MAFMA) In PT.A

Harland Syaefulloh, Rina Fitriana and Elfira Febriani Harahap, Department of Industrial Engineering, Trisakti University, Kyai Tapa No. 1, Jakarta 11440, Indonesia

ID 464 Analyzing Factors that Impacts to Organizational Citizenship Behavior as a Part of Strategic Decision in Operation Management

Shelvy Kurniawan, Danang Prihandoko, Christina Natalia, Dwi Natasari Juwita, Nyoman Radha Astika Putri, Management Department, BINUS, Business School Undergraduate Program, Bina Nusantara University, Jl. K.H. Syahdan No. 9, Palmerah, Jakarta 11480, Indonesia

ID 466 Influence of Social Media Marketing, Word of Mouth and Advertising on Brand Awareness and Buying Interest (Case Study of Indihome Product)

Lidia Gabriella Titawanno and Erni Martini, S. Sos., M.M, Faculty of Economic and Business, Telkom University, Bandung, Indonesia

ID 467 Evaluation of Project Management Implementation Case Study: Environmental Phytoremediation Project in PT. Abadi Bersama Cahaya Indonesia

Rezy Yudana Ruslan , Aries Firman, School of Business and Management Bandung Institute of Technology, Bandung, Indonesia

ID 469 Public's Perceptions of Batik and How We Determine Marketing Strategy of Batik as Informal Attire

Kintan Julia Raihanum, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia

Balqis Putri Hidayatullah, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia 11480

Tiara Safa Ardelia Putri, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia

Mulyani Karmagatri, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia

ID 470 Optimization of Woven Fabric Production Process Using Multi Response Taguchi, GRA and PCA

Yunus Nazar, Instructor, Departement of Weaving Engineering, AK-Tekstil Solo, Surakarta, Indonesia

Eko Pujiyanto, Lecturer, Department of Industrial Engineering, Universitas Sebelas Maret (UNS), Surakarta, Indonesia

Lobes Herdiman, Lecturer, Department of Industrial Engineering, Universitas Sebelas Maret (UNS), Surakarta, Indonesia

Cucuk Nur Rosyidi, Professor, Department of Industrial Engineering, Universitas Sebelas Maret (UNS), Surakarta, Indonesia

ID 473 Analysis Quality Control of TR 7864 Fabric Product Using Statistical Quality Control Method: A Case Study

Anisa Agustina, Department of Industrial Engineering, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Indonesia

Wahyudi Sutopo, University Centre of Excellence for Electrical Energy Storage Technology, Universitas Sebelas Maret, Surakarta, Indonesia

ID 474 Workload Analysis to Optimize Productivity of the Inspection Division

Anisa Nur Maya Dwi Ratih Hilda Hidayat, Department of Industrial Engineering, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Indonesia

Wahyudi Sutopo, University Centre of Excellence for Electrical Energy Storage Technology, Universitas Sebelas Maret, Surakarta, Indonesia

ID 476 The Effect Of Perceived Ease Of Use Website And Internet Skills On Website Trust And Online Purchase Interest (Case Study Online Purchase on H&M Indonesia Website)

Tasya Millenia Safir and Erni Martini S. Sos., M.M, Faculty of Economics and Business, Telkom University, Bandung, Indonesia

ID 477 Household Behavior on Plastic Waste Separation in Indonesia

Akmali Khansa Hafsah and Anna Maria Sri Asih, Dapartemen Teknik Mesin dan Industri, Universitas Gadjah Mada, Yogyakarta, Indonesia

ID 478 The Effect of Perceived Service Quality and Brand Trust on The Repurchase Intention of Online Ojek Consumers in The Covid-19 Pandemic: Study on GOJEK Consumers in DKI Jakarta

Cecep Hidayat, Enny Noegraheni Hindarwati, Ghina Salsabilah Gumay, Mellinia Nur Fortuna, and Risma Octa Sari, Management Department, BINUS Business School Undergraduate Program Bina Nusantara University Jakarta, Indonesia

ID 479 Plastic Component Nonconforming Analysis Using FMEA and Fishbone Diagram

Mila Faila Sufa and Tania Apriliningtyas, Department of Industrial Engineering, Faculty of Engineering, Muhammadiyah Surakarta University, Surakarta, Central Java, Indonesia

ID 490 A Conceptual Framework on Work-Related Road Safety of the Gig riders in Malaysia

Syiikhah Abd Rahman, Jafri Mohd Rohani, Rozlina Md Sirat, and Mohd Firdaus Mohd Taib, School of Mechanical Engineering, Faculty of Engineering, Universiti Teknologi Malaysia, Skudai, Johor Bahru, Malaysia

Rahmat Mohsin, UTM-MPRC Institute for Oil and Gas, Universiti Teknologi Malaysia Skudai, Johor Bahru, Malaysia

ID 493 Being a Sustainable Bank: The Case in Indonesian Banks

Adi Teguh Suprapto, Dezie Leonarda Warganegara and Wibowo Kosasih, Doctor of Research in Management, Binus Graduate Program, Binus University, Jakarta, 11480, Indonesia

Idris Gautama So, Professor, Doctor of Research in Management, Binus Graduate Program, Binus University, Jakarta, 11480, Indonesia

ID 497 Improvement of Education Quality Using Quality Control Circle Methods Based on Fulfillment of ISO 21001:2018 Requirements

Yudi Syahrullah, Industrial Engineering Department, Faculty of Engineering, Universitas Jenderal Soedirman, Purbalingga, Indonesia

Rani Aulia Imran, Industrial Engineering Department, Faculty of Engineering, Universitas Jenderal Soedirman, Purbalingga, Indonesia

Tigar Putri Adhiana, Industrial Engineering Department, Faculty of Engineering, Universitas Jenderal Soedirman, Purbalingga, Indonesia

Maria Krisnawati, Industrial Engineering Department, Faculty of Engineering, Universitas Jenderal Soedirman, Purbalingga, Indonesia

ID 500 Quality Improvement on Welding Process of Colt Diesel Cabin Using Six Sigma Method

Rina Fitriana, Debbie Kemala Sari, and Salshabila Medina, Quality Engineering Laboratory, Department of Industrial Engineering, Universitas Trisakti, Jakarta, Indonesia

ID 502 Industry 4.0 and collaboration along the Brazilian automotive chain: visions of automakers and autoparts

Nilza Aparecida dos Santos, Paulista University - UNIP, São Paulo, SP, Brazil, FATEC - COTIA, Cotia, SP, Brazil

Sérgio Miele Ruggero, Paulista University - UNIP, São Paulo, SP, Brazil,

Antônio Carlos Estender, Paulista University - UNIP, São Paulo, SP, Brazil

Marcia Terra da Silva, Paulista University - UNIP, São Paulo, SP, Brazil

ID 503 Strengthening Local Economy through School Feeding

Antônio Carlos Estender, Nilza Aparecida dos Santos, Jorge Luiz Dias Agia, Sérgio Miele, Ruggero, and Oduvaldo Vendrametto, Paulista University - UNIP, São Paulo, SP, Brazil

ID 504 Supply Chain Performance Measurement with Method SCOR Model in Service Company

Haryadi Sarjono, Adi Teguh Suprapto, Adinda Hanna Setyorini, Dyah Rosita Nurjannah and Fara Fisabilla, Binus Business School Undergraduate Program, Binus University, Jakarta, 11480, Indonesia

ID 506 Consumer Trust and Online Purchase Decision Study of Consumer Behavior on E-Commerce

Erma Lusia, Tourism Destination Program BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia

Indriana, Business Creation Program, BINUS Business School, Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia

Doni Purnama Alamsyah, Entrepreneurship Department, BINUS Business School Undergraduate Program, Bina Nusantara University

ID 507 Performance Improvement in Heat Exchanger Company using Lean Sustainable Manufacturing Approach

Iveline Anne Marie, Emelia Sari and Hana Shola Ama, Department of Industrial Engineering, Faculty of Industrial Technology, Universitas Trisakti, Jakarta, Indonesia

ID 508 Supply Chain Improvement of Bearing Lathe Components to Increase Efficiency Using Lean Supply Chain at PT. HRS Indonesia

Idriwal Mayusda, Iveline Anne Marie, Sarah Fahria Andriani, Production System Laboratory, Department of Industrial Engineering, Faculty of Industrial Technology, Trisakti University, Jl. Kyai Tapa No. 1, Jakarta 11440, Indonesia

ID 509 Halal Tourism Research

Muhammad Fadhila Yudhanata, Wahyudhi Sutrisno, Roaida Yanti, Qurtubi, Department of Industrial Engineering, Universitas Islam Indonesia, Yogyakarta, Indonesia, Department of Management, Universitas Islam Indonesia, Yogyakarta, Indonesia

ID 511 The Acceptance of IoT: Study on Consumer Behavior

Sandy Setiawan and Doni Purnama Alamsyah, Entrepreneurship Department, Bina Nusantara University, Jakarta, Indonesia

ID 512 The Effects of Store Atmosphere and Service Quality on Customer Loyalty (Case Study of a Coffee Shop in Tasikmalaya, Indonesia)

Handy Fadillah Rachman, Aditya Wardhana, Mahir Pradana, and Tri Indra Wijaksana, Department of Business Administration, Telkom University, Bandung, 40257, Indonesia

Renaldi Renaldi, Universitas Andi Djemma, Jalan Puang H. Daud no. 4, Palopo Sulawesi Selatan, Indonesia

ID 513 Effect Of Work Life Balance and Work Stress On Employee Performance (Study At Bank BJB Branch Tasikmalaya)

Fylia Pebiyanti, Alex Winarno, and Mahir Pradana, Business Administration, Telkom University, Bandung, West Java, Indonesia

Renaldi Renaldi, Universitas Andi Djemma, Jalan Puang H. Daud no. 4, Palopo Sulawesi Selatan, Indonesia

ID 514 Factors Affecting Cocoa Pricing in West Pasaman District

Peni Shoffiyati, Agricultural Science Study Program, Faculty of Agriculture, Andalas University, West Sumatra, Padang, Indonesia

Melinda Noer, and Rahmat Syahni, Agricultural Socio-Economic Study Program, Faculty of Agriculture, Andalas University, West Sumatra, Padang, Indonesia

Asrinaldi, Social and Political Science Study Program, Faculty of Social and Political Sciences, Andalas University, West Sumatra, Padang, Indonesia

ID 515 Problem Based Learning in Online Class of Mass Transfer Operation Course

Sperisa Distantina and Joko Waluyo, Chemical Engineering Department, Engineering Faculty, Universitas Sebelas Maret, Jl. Ir. Sutami 36 A Surakarta, Indonesia

ID 516 A Strategy to Realize Soybean Self-Sufficiency: A System Dynamics Approach (A Case in Central Java Province, Indonesia)

Nancy Oktyajati, Department of Industrial Engineering, Universitas Islam Batik, Surakarta, Indonesia, Industrial Engineering and Techno-economics Research Group, Department of Industrial Engineering, Universitas Sebelas Maret, Surakarta, Indonesia

Muhammad Hisjam and Wahyudi Sutopo, Department of Industrial Engineering, Universitas Sebelas Maret, Surakarta, Indonesia

ID 517 The Application of Cooperative Project-Based Learning in Engineering Drawing Course to Enhance Students' Teamwork Skills

Lina Indawati, Department of Civil Engineering, Faculty of Engineering, Universitas Sebelas Maret, 57126, Surakarta, Indonesia

ID 518 The Social Design Techniques as Project Based Learning for Architecture Student

Kusumaningdyah Nurul Handayani, Head of Urban-Rural Design and Conservation Laboratory, Department of Architecture, Faculty of Engineering, Head of Japan Culture Study Institute for Research and Community Service of Universitas Sebelas Maret (UNS), Surakarta, Indonesia

Pratiwi Anjar Sari, Anita Dianingrum, Maya Andria Nirawati, Hardiyati

Research Group Urban-Rural Design and Conservation Laboratory, Department of Architecture, Faculty of Engineering Universitas Sebelas Maret (UNS), Surakarta, Indonesia

ID 519 Project-Based Learning in Civil Engineering: Learning Experience from the Steel Structure Design Course at Universitas Sebelas Maret, Indonesia

Erik Wahyu Pradana, Civil Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Jl. Ir. Sutami, 36 A, Surakarta, Indonesia

Senot Sangadji, Civil Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Jl. Ir. Sutami, 36 A, Surakarta, Indonesia

Siti Nurlita Fitri, Civil Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Jl. Ir. Sutami, 36 A, Surakarta, Indonesia

ID 520 An Approach of Project Based Learning design for Autonomous Vehicle Course in Online Class

Joko Slamet Saputro, Miftahul Anwar, Feri Adriyanto and Hari Maghfiroh, Department of Electrical Engineering, Faculty of Engineering, Universitas Sebelas Maret, Jl. Ir. Sutami, 36 A, Surakarta, Indonesia

ID 521 PDCA Analysis on Management Administration Information Based on Android in Resik Becik Semarang

Vania Ayu Rachmadanti, Ratih Setyaningrum, Dwi Nurul Izzhati, Industrial Engineering, Faculty of Engineering, Dian Nuswantoro University, Semarang, Indonesia

ID 522 Optimization of Artificial Intelligence in Telecommunication

Nurhayati Sembiring, Maghfira Ashila Nasution, Andri Gunawan, Bayu Febrilliandika, Universitas Sumatera Utara, Medan, Indonesia

Muhammad Fadly Tanjung, Faculty of Computer Science, Universitas Indonesia, Depok, Indonesia

ID 523 Design Of Elderly Reading Chair To Decrease Musculoskeletal Disorders By Using Quality Function Deployment (QFD) Method

Hari Purnomo, Industrial Engineering Program, Universitas Islam Indonesia, Yogyakarta, Indonesia

Beta Arya Ash shidik, Industrial Engineering Postgraduate Program, Universitas Islam Indonesia, Yogyakarta, Indonesia

Ayudyah Eka Apsari, Industrial Engineering Program, Universitas Islam Batik Surakarta, Surakarta, Indonesia

ID 524 The Relationship between The Use of Personal Protective Equipment (PPE) With the Levels of Stress in Dentists During the Covid-19 Pandemic

Wita Anggraini, Dewi Ranggaini, Annisa Putri Ariani, Department of Oral Biology, Faculty of Dentistry, Trisakti University, Jakarta, Indonesia

ID 525 Macroergonomic and Analysis Design (MEAD) for Permanent Shelter of Public Transportation

Brillian Nur Diansari and Bambang Suhardi, Department of Industrial Engineering, Universitas Sebelas Maret, Surakarta

Novie Susanto, Industrial Engineering Department, Universitas Diponegoro, Semarang

ID 526 The Relationship between Corporate Governance and Financial Performance in the UAE Exchange Market

Ahmed Khalfan Al Kaabi and Abd Rahman Ahmad, Faculty of Technology Management and Business, Universiti Tun Hussein Onn Malaysia, Batu

Pahat, Johor, Malaysia

ID 527 Assessment and the Difference of Mental Workload between Work from Home (WFH) and Work form Office (WFO) Using NASA-TLX (Case Study in PT KIC)

Desinta Rahayu Ningtyas, Anisa Puspa Delima, and Kirana Rukmayuninda Ririh, Industrial Engineering - Engineering Departement, Pancasila University, Srengseng Sawah Road, Jagakarsa, South Jakarta Indonesia

ID 528 Formulation of Mathematical Model to Determine The Risk of Computer Vision Syndrome (VCS) in The Use of An Ergonomic Drawing Tablet Application in Writing Modre Characters

I Wayan Santiyasa, Informatic Department of Udayana University, Bali, Indonesia

I Putu Gede Adiatmika and I Nyoman Adiputra, Medicine Faculty of Udayana University, Bali, Indonesia

Ida Bagus Alit Swamardika, Electrical Engineering of Udayana University, Bali, Indonesia

ID 529 The Critical Variables for the Risk Assessment Associated with Pushing and Pulling of Wheeled Equipment in the Workplace: Subject Matter Expert Review

Hari Krishnan Tamil Selvan and Mohd Nasrull Abdol Rahman, Department of Manufacturing and Industrial Engineering, Faculty of Mechanical and Manufacturing Engineering, Universiti Tun Hussein Onn Malaysia (UTHM), 86400 Parit Raja, Batu Pahat, Johor, Malaysia.

ID 530 Personal Protective Equipment for Health Workers During a Pandemic: A Literature Review of Evaluation of Discomfort and Physiological Response

Totong Totong dan Hardianto Iridiastadi, Industrial Engineering and Management Departement, Bandung Institute of Technology

ID 531 Design of Motorcycle Oil Performance Detector

Muhammad Kholid Shalahuddin, Student in Informatics Engineering, Universitas Muhammadiyah Magelang, Jl. Mayjend. Bambang Soegeng, Mertoyudan, Magelang 56172, Indonesia

Endah Ratna Arumi, Setiya Nugroho, Lecturer in Informatics Engineering, Universitas Muhammadiyah Magelang, Jl. Mayjend. Bambang Soegeng, Mertoyudan, Magelang 56172, Indonesia

ID 532 Development of a Real-Time Ergonomic Assessment Tool to Minimize Musculoskeletal Disorders Risk

Anisa Fauziah, Department of Industrial Engineering and Management, Institut Teknologi Bandung, Bandung, West Java, Indonesia

Khoirul Muslim, Department of Industrial Engineering and Management , Institut Teknologi Bandung, Bandung, West Java, Indonesia

Septian Dwi Chandra, Firmware Design Department, PT. Indonesia Epson Industry, Bekasi, West Java, Indonesia

ID 533 Assessment Comfortability of Climbing Stairs and the Height of Building Stair

Lovely Lady, Industrial Engineering Department - University of Sultan Ageng Tirtayasa. Jl. Jend. Sudirman km 3, Cilegon

ID 534 The Potential and Challenges of Virtual Reality in Indonesia

Ainun Habibah, Dwita Astari Pujiarti, Ari Widyanti, and Herman Rahardian Soetisna, Industrial Engineering, Bandung Institute of Technology, Bandung, Indonesia

ID 535 A Genetic Algorithm Based Approach for the Maritime Inventory Routing Problem

Firda Nur Rizkiani, Department of Industrial Management, National Taiwan University of Science and Technology, Taipei, Taiwan, Department of Industrial and Systems Engineering, Institut Teknologi Sepuluh Nopember, Surabaya, Indonesia

Vincent F. Yu, Department of Industrial Management, National Taiwan University of Science and Technology, Taipei, 106335, Taiwan

Nurhadi Siswanto, Department of Industrial and Systems Engineering, Institut Teknologi Sepuluh Nopember, Surabaya, 60111, Indonesia

ID 536 An Economic Production Quantity Model for Smart and Connected Product with Upstream and Downstream Trade Credit

Nandya Shafira Pramesti, Department of Industrial Management, National Taiwan University of Science and Technology, Taipei, Taiwan, Department of Industrial and Systems Engineering, Institut Teknologi Sepuluh Nopember, Surabaya, Indonesia

Yu-Chung Tsao and Thuy-Linh Vu, Department of Industrial Management

National Taiwan University of Science and Technology, Taipei, Taiwan

Iwan Vanany, Department of Industrial and Systems Engineering Institut Teknologi Sepuluh Nopember, Surabaya, Indonesia

ID 537 Toyota Production System in Aircraft Industry - A Case Study

Setyo Utomo Soekarsono and Hardianto Iridiastadi, Master program in Industrial Engineering and Management, Bandung Institute of Technology

Yustiono Dwi Arianto, PT Dirgantara Indonesia, Bandung, Indonesia

ID 538 Visual Fatigue Examination on Static and Dynamic Virtual Environment

Laras Swandayani and Adithya Sudiarno, Industrial and System Engineering, Institut Teknologi Sepuluh Nopember, Surabaya, Indonesia

ID 539 Review of Objective and Subjective Methods for Rear-End Collision Risk Assessment

Fatin Saffanah Didin, Hardianto Iridiastadi, Ari Widyanti, Industrial Engineering and Management Department, Institut Teknologi Bandung, Bandung, Indonesia

ID 540 Usability Analysis of Tembang Sekar Alit Learning (SekARAI) Applications Using The Human Computer Interaction (HCI) Model In Bali Students

Made Agung Raharja, Informatic Department of Udayana University, Bali, Indonesia

Susy Purnawati, I Putu Gede Adiatmika, and I Nyoman Adiputra, Medicine Faculty of Udayana University, Bali, Indonesia

Ida Bagus Alit Swamardika, Electrical Engineering of Udayana University, Bali, Indonesia

ID 541 Factors Causing Train Driver Fatigue: A Systematic Review

Sevty Auliani and Hardianto Iridiastadi, Faculty of Industrial Technology, Bandung Institute of Technology, Bandung, Indonesia

ID 542 Systematic Literature Review: Bibliometric Analysis of Green Consumer Behavior

Aries Susanty, Nia Budi Puspitasari, Pradhipta Listyawardhani, Heru Prastawa, Department of Industrial Engineering, Faculty of Engineering, Diponegoro University, Semarang, 50275, Indonesia

ID 543 Human-Side Emotional Service Design for Experience-Centric Amusement Park

Markus Hartono, I Made Ronyastra, Tania Aisyah Fajrin, Department of Industrial Engineering, University of Surabaya, Jalan Raya Kalirungkut, Tenggilis, Surabaya 60293, Indonesia

ID 544 Influence Safety Climate and Safety Behavior Against the Safety Behavior on Bus Rapid Transit Driver with Gender as Moderating Variable

Rahmanda Wulandari, Industrial Engineering Department Sepuluh Nopember Institute of Technology Surabaya, Indonesia

Dyah Santhi Dewi, Industrial Engineering Department Sepuluh Nopember Institute of Technology Surabaya, Indonesia

Adithya Sudiarno, Industrial Engineering Department Sepuluh Nopember Institute of Technology Surabaya, Indonesia

ID 545 Sustainability Assessment of Tourism Destination with Multidimensional Scaling Approaches

Ratna Purwaningsih, Maharani Ratri Windy Sabrina, Susatyo Nugroho WP, Aries Susanty, Departement of Industrial Engineering, Diponegoro University, Semarang, 50275, Indonesia

ID 546 A DMAIC Approach in Improving Wafer Hairline Crack Detection Process at Chip Probe and in Reducing Overall Manufacturing Downtime

Donilyn D. Salazar and Marvin I. Noroña, School of Industrial Engineering and Engineering Management, Mapúa University, 658 Muralla St., Intramuros, Manila 1002, Philippines

ID 547 Analysis of Trucking & Transportation Services Performance Factors: A Lean and Green Paradigm Shift

Gabriel Dan F. Fermazi, Cel Adriane Y. Lalo, and Marvin I. Noroña, School of Industrial Engineering and Engineering Management, Mapúa University, Manila, Philippines

ID 548 Ergonomic Intervention with Dirgaswasam Modeling Combined with Exercise Prescriptions (DirgasExPres) Reducing Musculoskeletal Complaints in Dentists

Ni Nyoman Kristina, Udayana University, Bali, Indonesia

I Made Ady Wirawan, I Putu Gede Adiatmika, and I Nyoman Adiputra, Medicine Faculty of Udayana University, Bali, Indonesia

ID 549 Efficiency Analysis of Indonesian Schools: A Stochastic Frontier Analysis using OECD PISA 2018 Data

Mujiya Ulkhaq, Department of Economics and Management, University of Brescia, Brescia, Italy

ID 550 Quality Comparison for Online Transportation Services Using the Competitive Zone of Tolerance Based Importance-Performance Analysis

Arfan Bakhtiar, Febby Veronica and Denny Nurkertamanda, Industrial Engineering Department, Diponegoro University, Semarang Indonesia

ID 551 Supply Chain Risk Assessment at Poultry Slaughterhouses using House of Risk Method to Define Mitigation Action

Ratna Purwaningsih, Putri Indah Ramadani, Sri Hartini, Ade Aisyah Arifna Putri, Departement of Industrial Engineering, Diponegoro University, Semarang, 50275, Indonesia

ID 552 Analysis of Gastroenteritis Incidence during the Covid-19 Pandemic on Shopping Center Employees

Veniranda Neny Widyastuti, Student of the Master's Program in Public Health Sciences, Faculty of Public Health, Universitas Sriwijaya Palembang, South Sumatera, Indonesia

Hermansyah and Yuanita Windusari, Lecturer of the Master's Program in Public Health Sciences, Faculty of Public Health, Universitas Sriwijaya

Palembang, South Sumatera, Indonesia

ID 553 Lean Manufacturing Improvement Using ECRS and TRIZ Methods: Literature Review

Paulino Gamboa and Moses Laksono Singgih, Department of Industrial and System Engineering, Institut Teknologi Sepuluh Nopember (ITS), Department of Industrial Engineering, Dili University (UNDIL)

ID 554 Designing Performance Measurement System for Animal Feed Company Using Balanced Scorecard and Analytical Hierarchy Process Method

Deni Dwi Junico and Moses Laksono Singgih, Department of Management Technology, Instititut Teknologi Sepuluh Nopember, Surabaya, Indonesia

ID 555 Performance Measurement of Offshore Facility Maintenance Service Provider Using Quality Function Deployment

Achmad Nanang Zulfikar and Moses Laksono Singgih, Department of Management Technology, Institut Teknologi Sepuluh

Nopember (ITS)

ID 556 The Customer Satisfaction Analysis of the Cinema during Covid-19 Pandemic using the Kano Model in Indonesia

Andrean Emaputra, Kartinasari Ayuhikmatin Sekarjati, Indri Susilawati, Department of Industrial Engineering, AKPRIND Institute of Science and Technology, Kalisahak Street No. 28, Special Province of Yogyakarta, 55222, Indonesia

ID 557 Product Packaging in Support of Consumer Loyalty

Chyntia Ika Ratnapuri, Entrepreneurship Dept, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia

Okky Rizkia Yustian, Entrepreneurship Dept, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia

Dian Kurnianingrum, Entrepreneurship Dept, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia

Doni Purnama Alamsyah, Entrepreneurship Dept, BINUS Business School Undergraduate Program, Bina Nusantara University, Jakarta, Indonesia

ID 558 3D Printing Technology: A New Advancement for Modular Construction?

William Faustin, Mohammed Ali Berawi, Gunawan Saroji, Civil Engineering Department, University of Indonesia, Depok, Indonesia

ID 559 A Conditional Process Analysis on the Relationship between Work-Life Balance, Well-being, Job Satisfaction, and Work from Home Practice during the COVID-19 Pandemic

Auditya Purwandini Sutarto, Department of Industrial Engineering, Universitas Qomaruddin Gresik, Jln Raya Bungah 01, Gresik, Indonesia

Titis Wijayanto, Department of Mechanical and Industrial Engineering, Universitas Gadjah Mada, Jln Raya Teknika, Yogyakarta, Indonesia

Irma Nur Afiah, Department of Industrial Engineering, Universitas Muslim Indonesia, Makassar, Indonesia

ID 560 Study of Optimization Problems Associated With Technical Implementation of Drones in the Post-Pandemic Society

Gary Yu-Hsin Chen and Chen-Yi Hung, Department of Logistics Management, National Kaohsiung University of Science and Technology, 1 University Rd., Yanchao Dist., Kaohsiung 82445, Taiwan

Ronald Sukwadi, Department of Industrial Engineering, Atma Jaya Catholic University of Indonesia, Jl. Raya Cisauk, Sampora Tangerang Selatan, Banten 15345, Indonesia

ID 561 Systematic Literature Review: Puppet Implementation Digital Technology in Industry

Haryadi Sarjono, BINUS Business School Undergraduate, Bina Nusantara University, Jakarta, Indonesia

Andriyani, Sekolah Tinggi Ilmu Ekonomi Bisnis Indonesia, Jakarta, Indonesia

Heppy Yohanes, Sekolah Tinggi Teologi Bethel The Way, Jakarta, Indonesia

ID 563 Systematic Literature Review The Role of E-Commerce in Reog Ponorogo Art Crafters

Haryadi Sarjono, BINUS Business School Undergraduate, Bina Nusantara University, Jakarta, Indonesia

Ria Trianti, Sekolah Tinggi Ilmu Ekonomi Bisnis Indonesia, Jakarta Barat, Indonesia

Heppy Yohanes, Sekolah Tinggi Teologi Bethel The Way, Jakarta, Indonesia

ID 564 The Art of Performing The Kecak Dance that Transformed into The Creative Industry: Systematic Literature Review

Haryadi Sarjono, BINUS Business School Undergraduate, Bina Nusantara University, Jakarta, Indonesia

Listianingsih, Sekolah Tinggi Ilmu Ekonomi Bisnis Indonesia, Jakarta Barat, Indonesia

Heppy Yohanes. Sekolah Tinggi Teologi Bethel The Way. Jakarta, Indonesia

ID 565 University Students' Mental Workload and Sleep Quality due to Online Lecture during Covid-19 Pandemic

Lina Dianati Fathimahhayati, Risky, Suwardi Gunawan, Industrial Engineering Department, Engineering Faculty, Mulawarman University, Jalan Sambaliung No. 9, Samarinda, East Borneo, Indonesia

ID 566 Implementation of Preventive Maintenance on CNC Milling Tape Drill Machine at PT XYZ Using FMEA Method and Age Replacement

Bambang Purwanggono and Jouondo R Ibana, Industrial Engineering Department, Diponegoro University, Semarang, Indonesia

ID 567 Ergonomic Risk Assessment of Musculoskeletal Disorders (MSD) During Chest Compression in Three Different Position In A Rescuer Performing Paediatric Basic Life Support

Amrita Kaur Seera Harapajan Singh, Department of Emergency Medicine, School of Medical Sciences, Health Campus, University of Science Malaysia Kubang Kerian, Kelantan

Shaik Farid Abdull Wahab, Hospital University of Science Malaysia, Health Campus, Universiti Sains Malaysia, Kubang Kerian, Kelantan

Rohayu Othman, Kolej Kemahiran Tinggi MARA, Lebuhraya Pasir Mas Lubok Jang, Pasir Mas, Kelantan, Malaysia

ID 568 Evaluation of the Implementation of Fire Safety Management Based on Work Breakdown Structure for High-Rise Apartments

Soraya Muthma Innah Nasution, Fadhilah Muslim, Yusuf Latief, Civil Engineering, Faculty of Engineering, University of Indonesia, Depok, West Java 16424, Indonesia

ID 569 Improving Oil and Gas Wireline Log Data Quality Using Six Sigma Methods

Desma and Leni Sagita, Department of Civil engineering, Faculty of Engineering, University of Indonesia, Depok, Indonesia

Mohamad Ichsan, Management Program, Binus, Business School Undergraduate Program, Jakarta, Indonesia

ID 570 Innovative Learning Era Industrial Revolution 4.0 in Optimizing 21st Century Competence Elementary School Students

Fitri Indriani, Nur Hidayah, AlQisan, Nana Nur Okfitri, Department of Primary Education, Graduate School of Universitas Ahamad Dahlan

ID 571 How a Crisis Can Change Training Design: A Case Study on Principal Preparation Training in Indonesia

Ratna Juwita, Lembaga Pengembangan dan Pemberdayaan Kepala Sekolah dan Pengawas Sekolah (LPPKSPS), Kementerian

Pendidikan dan Kebudayaan, Karanganyar, Indonesia

ID 572 The Conservational Attitudes of College Students in Elementary Schools Teachers of Education Department on Online Lecturing

Aldina Eka Andriani, Siti Maryatul Kiptiyah, Sukardi Sukardi, Sri Sami Asih, Yuli Witanto, Department of Elementary School Teacher Education, Faculty of Education, Universitas Negeri Semarang, Indonesia

ID 573 The Critical Thinking Skills of High School with Problem- Based Learning Model-Assisted Mind Map in Online Learning on Dynamic Fluid

Yurike Margaret Takus, Student at Department Magister of Physics Education, Faculty of Teacher Training and Education, Sebelas Maret University, 57126, Indonesia

Widha Sunarno and Daru Wahyuningsih, Faculty of Teacher Training and Education, Sebelas Maret University, Surakarta, Indonesia

ID 574 Support Vector Regression (SVR) Model for Seasonal Time Series Data

Hanifah Muthiah, Umu Sa'adah, Achmad Efendi, Department of Statistics, Brawijaya University Malang, Indonesia

ID 575 Factors Affecting Family Resilience of Health Workers during the COVID-19 Pandemic: A Systematic Literature Review

Aprilia Puspitasari, Master of Faculty Psychology, Universitas Diponegoro, Jl. Prof. Soedarto, SH, Kampus Undip Tembalang, Semarang, Jawa Tengah

Dian Veronika Sakti Kaloeti, Pusat Pemberdayaan Keluarga, Faculty of Psychology, Universitas Diponegoro, Jl. Prof. Soedarto, SH, Kampus Undip Tembalang, Semarang, Jawa Tengah

ID 576 The Level of Ability of Public Elementary School Teachers in Use Digital Technology-Based Learning Media during the Covid-19 Pandemic

Indra Nugrahayu Taufik, Indonesian Language and Literature Education Department, RAA Wiranatakusumah 7, Baleendah, Bandung, Indonesia

Syihabuddin and Sumiyadi, School of Postgraduates, Indonesia University of Education, Dr. Setiabudhi 229, Bandung, Indonesia

ID 577 Analysis of Students' Mathematical Problem-Solving Ability Based on John Dewey's Theory

Fitriani Roskaputri, Mardiyana, Laila Fitriana, Mathematics Education of Graduate School, Sebelas Maret University, Surakarta, Indonesia

ID 578 The Cooperative Learning Challenges in Elementary School during Covid-19: A Report from Teachers in Yogyakarta

Ratna Ainun Fauzani and Anwar Senen, Graduate School, Department of Primary Education, Yogyakarta State University, Jl. Colombo Yogyakarta No.1, Karang Malang, Caturtunggal, Kec. Depok, Kabupaten Sleman, Daerah Istimewa Yogyakarta

Heri Retnawati, Graduate School, Department of Mathematics Education

Yogyakarta State University, Jl. Colombo Yogyakarta No.1, Karang Malang, Caturtunggal, Kec. Depok, Kabupaten Sleman, Daerah Istimewa Yogyakarta 55281

ID 579 Vocational Education in Madrasah Aliyah in Central Java

Nugroho Eko Atmanto, A.M. Wibowo, Siti Muawanah, Aji Sofanuddin, Umi Muzayanah, Mulyani Mudis Taruna, Wahab, Ahmad Muntakhib, Office of Religious Research and Development Semarang, Ministry of Religious Affairs, Indonesia

ID 580 Development of Online Module Based on Discovery Learning to Improve Critical Thinking Ability in Basic Concepts of Science at Primary School Teacher Education

Dewi Nilam Tyas, Desi Wulandari, Panca Dewi Purwati, Aldina Eka Andriani, Siti Maryatul Kiptiyah, Department of Elementary School Teacher Education, Faculty of Education, Universitas Negeri Semarang, Indonesia

ID 581 Family Resilience and Mental Health during the COVID-19 Pandemic: Systematic Literature Review

Purwanti Harini, Master Psychology, Faculty of Psychology, Universitas Diponegoro, Jl. Prof. Soedarto, SH, Kampus Undip Tembalang, Semarang, Jawa Tengah

Dian Veronika Sakti Kaloeti, Pusat Pemberdayaan Keluarga, Faculty of Psychology, Universitas Diponegoro, Jl. Prof. Soedarto, SH, Kampus Undip Tembalang, Semarang, Jawa Tengah

ID 582 Student Mathematical Representation Ability in Their Learning Habits during the Covid-19 Pandemic

Ummu Baroroh, Mardiyana, Laila Fitriana, Mathematics Education of Graduate School, Sebelas Maret University, Surakarta, Indonesia

ID 583 Analysis of Students Critical Thinking Skills on the Limit of Algebraic Functions

Yatik Octaviani, Postgraduate Program of Mathematics Education, Universitas Sebelas Maret, Surakarta, Indonesia

Imam Sujadi, Faculty of Teacher Training and Education, Universitas Sebelas Maret, Surakarta, Indonesia

Isnandar Slamet, Faculty of Mathematics and Natural Sciences Training and Education, Universitas Sebelas Maret, Surakarta, Indonesia

ID 584 Exploring the Kindergarten Preparedness in Facing New Normal Education Era

I Wayan Suyanta, Lecturer, Early Childhood Education at State Hindu University I Gusti Bagus Sugriwa Denpasar, Bali - Indonesia

Kadek Dwi Wahyuni, Education Quality Analyst at Early Childhood and Community Education Development Center, Ministry of Education and Culture of the Republic of Indonesia

ID 585 Cognitive Flexibility Categorization in Moral Dilemma Decision

Hartanto Hartanto, Universitas Gadjah Mada, Faculty of Psychology

Imam Shofwan, Faculty of Education, Universitas Negeri Semarang, Indonesia

ID 586 Life Skills Education through the Heroic Values of the King of Kasunanan and the King of Mangkunegaran in Surakarta Folktales

Nugraheni Eko Wardani, Faculty of Teacher Training and Education, Sebelas Maret University, Jl. Ir. Sutami 36A Surakarta, Indonesia

ID 587 Najwa Syihab's Speech Strategy in Mata Najwa Show on Metro TV From the Perspective of Community Education

Lusi Komala Sari, Indonesian Language and Literature Education Department, Sultan Syarif Kasim State Islamic University, HR. Soebrantas Panam Km. 15 No. 155, Riau, Indonesia

Syihabuddin and Vismaia S. Damaianti, School of Postgraduates, Indonesia University of Education, Dr. Setiabudhi 229, Bandung, Indonesia

ID 588 The Analysis on The Transmission Pattern of Slawatan Pawijian as The Form of Cultural Conservation in Tamanasri Pacitan

Deasylina da Ary and Kurniana Bektiningsih, Universitas Negeri Semarang, Jl. Beringin Raya No. 15 Wonosari Ngaliyan Semarang,

ID 589 Mapping Science Teachers' Pedagogical Content Knowledge In Classroom Interaction Through Transcript-Based Lesson Analysis: A Case Study

Indra Budiman, Anna Permanasari, Ida Kaniawati, and Iwa Lukmana, Science Education Program, School of Postgraduate Studies, Universitas Pendidikan Indonesia, Jl. Dr. Setiabudhi No. 229, Kota Bandung, Jawa Barat 40154, Indonesia

ID 590 Emergency Curriculum during COVID-19 Pandemic

Umi Muzayanah, Siti Muawanah, and A.M. Wibowo, Office of Religious Research and Development Semarang, Ministry of Religious Affairs, Indonesia

Imam Shofwan, Faculty of Education, Universitas Negeri Semarang, Indonesia

ID 591 Online Discussion Barier in Indonesia: Does It Had The Same Walls?

Bayu Prasodjo, Faculty of Education, Yogyakarta State University, Yogyakarta, Indonesia

Heri Retnawati, Faculty of Mathematics and Natural Science, Yogyakarta State University, Yogyakarta, Indonesia

ID 592 Modeling Operations of CCPP Tambak Lorok, Based on Gas Fuel and Investment in CCPP Block 3

Wahyu Dwi Nurdiyanto and Djatmiko Ichsani, Department of Mechanical Engineering, Institute Teknologi Sepuluh November, Surabaya, Indonesia

Nurhadi Siswanto, Department of Industrial and Systems Engineering, Institut Teknologi Sepuluh Nopember, Surabaya, Indonesia

ID 593 Value Added and Non-Value Added Activity Analysis in Disassembly Process for Productivity Enhancement during Covid-19 Pandemic

Muqimuddin, Engineering Management Department, Institut Teknologi Batam, The Vitka City Complex, Jl. Gajah Mada, Batam, Kepualauan Riau, Indonesia

Nurul Ilmi, Industrial Engineering Department, Institut Teknologi Batam, The Vitka City Complex, Jl. Gajah Mada, Batam, Kepualauan Riau, Indonesia

Bayu Nur Abdallah, Industrial Engineering Department, Institut Teknologi Kalimantan, Jl. Soekarno Hatta KM 15, Karang Joang, Kota Balikpapan, Kalimantan Timur, Indonesia

ID 594 Study of RFID Technology Applied to Parts Distribution Center in the Utility Sector

Gary Yu-Hsin Chen and Chen-Yi Hung, Department of Logistics Management, National Kaohsiung University of Science and Technology, 1 University Rd., Yanchao Dist., Kaohsiung, Taiwan

ID 595 The Implementation of the Tri Datu Concept of Socio-Cultural Ergonomic Oriented to Maintain Entrepreneurial Attitude of Workers on The Covid-19 Pandemic

I Made Sutajaya, Desak Made Citrawathi, Biology Education Study Program, Faculty of Mathematics and Natural Sciences, Undiksha

Ni Putu Sri Arnita, Ni Luh Putu Mia Lestari Devi, Biomedical Engineering Study Program, Bali Dwipa University Denpasar Bali

Ni Made Citra Aryani, Occupational Health and Safety Study Program, Bali International University Denpasar Bali

ID 596 Ergonomic Risk Assessment of Musculoskeletal Disorders During Simulated Endotracheal Intubation Using Direct Laryngoscopy and Video Laryngoscopy Among Doctors in Emergency and Trauma Department of a

Teaching Hospital

Mohd Anas Mohd Nor, Emergency and Trauma Department, Hospital Sungai Buloh, 47000, Selangor, Malaysia, Emergency and Trauma Department, School of Medical Sciences, Universiti Sains Malaysia Health Campus, 16150, Kota Bharu, Kelantan, Malaysia

Nik Hisamuddin Nik AB Rahman, Shaik Farid Abdull Wahab, Emergency and Trauma Department, School of Medical Sciences, Universiti Sains Malaysia Health Campus, 16150, Kota Bharu, Kelantan, Malaysia

Rohayu Othman, Kolej Kemahiran Tinggi MARA, Lebuhraya Pasir Mas Lubok Jang, 17000, Pasir Mas, Kelantan

ID 597 Correlation Between Backpack Weight and Shoulder Pain in Children Aged 6-11 (A Case in Elementary School in Makassar Indonesia)

Nurulinzany, Industrial Engineering Department, ATI Makassar Polytechnic Makassar, Indonesia

Industrial Engineering Department, Hasanuddin University, Makassar, Indonesia

I Bakri and S Asmal, Industrial Engineering Department, Universitas Hasanuddin, Makassar, Indonesia

ID 598 Risk Level for Manual Material Handling Activities Using Key Indicator Method in the Simulation of TPS Laboratory at Industrial Engineering, Diponegoro University

Yustina Nugraheni Wahyuningtyas, Heru Prastawa, Department of Industrial Engineering, Engineering Faculty, Diponegoro University, Tembalang, Semarang, Indonesia 50275

ID 599 The Effect of Emotion Induction on Situation Awareness and Driving Performance

Faradhina Azzahra, Industrial Engineering Postgraduate Program, Department of Mechanical and Industrial Engineering, Universitas Gadjah Mada, Yogyakarta, Indonesia

Titis Wijayanto, Department of Mechanical and Industrial Engineering, Universitas Gadjah Mada, Yogyakarta, Indonesia

ID 600 Work Posture Analysis Using Rapid Entire Body Assessment on Workers at AR Tailor Denpasar

Ni Luh Gede Aris Maytadewi Negara, I Dewa Putu Sutjana, Ni Made Citra Aryani, Program Studi Kesehatan dan Keselamatan Kerja Universitas Bali Internasional

ID 601 Analysis of Persuasive Communication Strategies and Ergonomics Macro in an Effort to Reduce Workplace Accidents in PT. X Batam

Dinda Okta Dwiyanti Ridwan Gucci, Industrial Engineering, Batam Institute of Technology, Indonesia

Muhammad Adi Sukma Nalendra, Design and Visual Communication, Batam Institute of Technology, Indonesia

ID 602 The Optimization of Facility Location-Routing Decision Model for Municipal Solid Waste Network

Cahaya Annisaa' Fathonah and Suparno, Department Industrial and Systems Engineering, Institut Teknologi Sepuluh Nopember, Surabaya, Indonesia

ID 603 The Effect of Intercultural Learning Challenges on Cognitive Load of Indonesian Students Abroad

Ratna Sari Dewi, Department of Industrial and Systems Engineering, Sepuluh Nopember Institute of Technology, Surabaya, Indonesia

Aisyah Juliawulan Malahayati, Department of Industrial and Systems Engineering, Sepuluh Nopember Institute of Technology, Surabaya, Indonesia

ID 604 Implementation of Kansei Engineering, Kano Model, and TRIZ in Improving the Quality of Fully Online Learning System

Ratna Sari Dewi, Department of Industrial and System Engineering, Sepuluh Nopember Institute of Technology, Surabaya, Indonesia

Dianda Aryntya Firia Ferlania, Department of Industrial and System Engineering, Sepuluh Nopember Institute of Technology, Surabaya, Indonesia

ID 605 Analysis of Train Passenger Comfort Related to the Vibration and Heat It Creates

Sugiono Sugiono, Oke Oktavianty, Dwi Hadi Sulistyarini, Willy Satrio Nugroho, Department of Industrial Engineering, Universitas Brawijaya, Malang, Indonesia

Evan Wiryawan, PT. Industri Kereta Api (INKA), Madiun, Indonesia

Heru Prastawa, Novie Susanto, Department of Industrial Engineering, Universitas Diponegoro, Semarang, Indonesia

Retno Widyaningrum, Ratna Sari Dewi, Department of Industrial and Systems Engineering, Institut Teknologi Sepuluh Nopember, Surabaya, Indonesia

ID 606 Perceived Usability Evaluation of MOLS (Mulawarman Online Learning System) During COVID-19 Pandemic Using System Usability Scale (SUS), Performance Measurement, and Thinking Aloud Methods

Theresia Pawitra, Willy Tambunan, Syahrul, Industrial Engineering Department, Mulawarman University, Samarinda, Indonesia

ID 607 Identification of Occupational Health and Safety Management System Indicators Based on Indonesian Government Regulation Number 50 Year 2012 and ISO 45001:2018 on Safety Culture in EPC Projects

Diennur Izzati Sugito, Leni Sagita Riantini and Rossy Armyn Machfudiyanto, Department of Civil Engineering, Universitas Indonesia, Jakarta, Indonesia

ID 608 Ergonomic Risks Associated with Musculoskeletal Disorders in Ikat Weaving Workers in Letmafo Induk Village, Insana Tengah District, Timor Tengah Utara Regency

Luh Putu Ruliati and Ribka Limbu, Public Health Study Program, Faculty of Public Health , Nusa Cendana University, Kupang NTT Indonesia

Arince Sopbaba, Student of Public Health Study Program, Faculty of Public Health, Nusa Cendana University, Kupang NTT Indonesia

ID 609 Macro Ergonomic Modeling in Instagram Usage Based on The Socio-Technical System Approach

Adithya Sudiarno, Industrial and System Engineering Department, Institut Teknologi Sepuluh Nopember, Indonesia

Roikhanatun Nafi'ah, Industrial and System Engineering Department, Institut Teknologi Sepuluh Nopember, Indonesia

Yogi Tri Prasetyo, School of Industrial Engineering and Engineering Management, Mapua University, Philippines

ID 610 Identification of Digitalization-Based Work Plans to Improve Time Performance in Railway Infrastructure Development Projects

Radeta Effendi, Leni S. Riantini and Rossy A. Machfudiyanto, Department of Civil Engineering, Faculty of Engineering, Universitas Indonesia Jakarta, 10430, Indonesia

ID 611 Reviewing the relationship between Authentic Leadership, Employee Engagement, and Organizational Innovation: Telecommunication Sector in Malaysia

Abdiaziz Mohamed Abdirahman, and Seow Ta Wee, Faculty of Technology Management & Business, Universiti Tun Hussein Onn Malaysia, 86400, Batu Pahat, Malaysia

ID 612 The Feasibility Level of The Infrastructures and Facilities of the Vocational Engineering Workshop in Palembang

Jefri Aldo and Dwi Rahdiyanta, Department of Mechanical Engineering, Universitas Negeri Yogyakarta, Yogyakarta, Indonesia

ID 613 Students' Perception toward Videoconference as the Mode of Teaching English Speaking for Presentation

Wiannastiti Melania, Mujiyanto, J., Bharati, D.A.L., Graduate School- Universitas Negeri Semarang, Semarang, Indonesia

ID 614 Students' Perceptions and Attitudes in Waste Management: The Role of Internet Literacy and Sustainability Programs

Teddy Prasetiawan and Aryo Wasisto, Research Center of Parliamentary Expertise Agency of the Indonesian House of Representatives, Bandung, Indonesia

ID 615 Hybrid Metaheuristics for Solving Vehicle Routing Problem in Bulk Cement Distribution

Antono Adhi, Department of Industrial and Systems Engineering, Institut Teknologi Sepuluh Nopember, Surabaya 60111, Indonesia, Department of Industrial Engineering, Universitas Stikubank, Semarang, Indonesia

Budi Santosa, Nurhadi Siswanto, Department of Industrial and Systems Engineering, Institut Teknologi Sepuluh Nopember, Surabaya, Indonesia

ID 616 Factors Affecting Parental Psychological Flexibility during Pandemic COVID-19: A Systematic Literature Review

Retno Herfinanda, Master Psychology, Faculty of Psychology, , Universitas Diponegoro, Indonesia, Jl. Prof. Soedarto, SH, Kampus Undip Tembalang, Semarang, Jawa Tengah

Dian Veronika Sakti Kaloeti, Pusat Pemberdayaan Keluarga, Faculty of Psychology, Universitas Diponegoro, Indonesia, Jl. Prof. Soedarto, SH, Kampus Undip Tembalang, Semarang, Jawa Tengah

ID 617 Improving the Critical Thinking Skills by Using the Discovery Learning Model Based on the Ethnoscience of the Patiayam Site

Sri Utaminingsih, Rihayati and Santoso, Teacher Training and Education Faculty, Muria Kudus University, Indonesia

ID 618 The Framework of Information Distribution in Project Communication System of Quality Culture in Construction Companies to Reduce Construction Failure Levels

Redhani Putri Maharani, Yusuf Latief, Rully Andika, Department of Civil Engineering, Faculty of Engineering, University of Indonesia, Depok, West Java 16424, Indonesia

ID 619 Framework of Leadership System in Improving Quality Culture in Indonesian Construction Company to Reduce Construction Failure

Putri Astie Utami, Rully Andhika Karim, Yusuf Latief, Department of Civil Engineering, Faculty of Engineering, University of Indonesia, Depok, West Java 16424, Indonesia

ID 620 Evaluation of Information System Implementation on Civil Registration Service at Surabaya, Indonesia (Case Study: Birth Certificate Service)

Maria Anityasari, Aufar Fikri Dimyati, Department of Industrial and System Engineering, Institut Teknologi Sepuluh

Nopember, Surabaya, Indonesia

ID 621 Comparison of Quick Eksposure Check (QEC) and Nordic Body Map (NBM) in Traditional Broom Workbench Design

Niko Siameva Uletika, Tigar Putri Adhiana, Khoerul Huda Aditama, Industrial Engineering Program, Engineering Faculty, Jenderal Soedirman University, Purbalingga, Jawa Tengah, Indonesia

ID 622 Ergonomics Assessment for Wearable Elbow Exoskeleton Prototype

Novie Susanto and Manik Mahachandra, Industrial Engineering Department, Faculty of Engineering, Diponegoro University, Semarang, Indonesia, Center for Bio Mechanic, Bio Material, Bio Mechatronics and Bio Signal Processing (CBIOM3S) Diponegoro University, Semarang, Indonesia

Christ Novia P Saraswati, Industrial Engineering Department, Faculty of Engineering, Diponegoro University, Semarang, Indonesia

ID 623 A Framework of University Internship Information System with Web-Based Design Analysis

Ferdian Aditya Pratama, Department of Information System, Atma Jaya Catholic University of Indonesia, Jakarta, Indonesia

Riana Magdalena Silitonga, Department of Industrial and Systems Engineering, Chung Yuan Christian University, Taiwan

Yung-Tsan Jou, Department of Industrial and Systems Engineering, Chung Yuan Christian University, Taiwan

ID 624 Evaluation of the SM-8018 Shima Ergono Wheelchair Product Prototype Design Based on Quality of Life and Ergonomic Function Deployment

Heri Setiawan, Industrial Engineering Study Program, Science and Technology Faculty, Musi Charitas Catholic University, Bangau Street No. 60 Palembang, South Sumatera, Indonesia

Micheline Rinamurti, Management Study Program, Business and Accounting Faculty, Musi Charitas Catholic University, Bangau Street No. 60 Palembang, South Sumatera, Indonesia

ID 625 Experimental Design of Baby Food Advertisement in Social Media

Nia Budi Puspitasari, Zainal Fanani Rosyada and Siauw Jessica Amanda Wijaya, Department of Industrial Engineering, Faculty of Engineering, Diponegoro University, Semarang, Indonesia

ID 626 Designing Strategies to Anticipate Circular Economy Barriers in Furniture Industry

Purnawan Adi Wicaksono, Yonathan Pradana Atmaja,, Singgih Saptadi, Denny Nurkertamanda, Yusuf Widharto, Industrial Engineering Department, Faculty of Engineering, Diponegoro University, Semarang 50277, Indonesia

ID 628 Application of Occupational Health and Safety (K3) in Agrotourism

Yusuf, Department of Mechanical Engineering, Politeknik Negeri Bali, Indonesia

N.K. Dewi Irwanti, STIPAR Triatma Jaya Denpasar, Bali, Indonesia

ID 629 Effective Workplace Stretching Exercise for Decreasing Musculoskeletal Disorders in Ndao Ika weavers in Rote Ndao Regency

Serlien A Luik, Jacob M Ratu and Agus Setyobudi, Faculty of public health, Nusa Cendana University

ID 630 Independent Design of the Legalization Office by Applying Activity-Based Flexible Office Concepts

Muhammad Fadhil Farras and Hartomo Soewardi, Industrial Engineering Department, Faculty of Industrial Technology, Islamic University of Indonesia, Yogyakarta, Indonesia

ID 631 Designing Sustainability Accounting and Dashboard Monitoring Based on Open ERP using Quickstart Approach

Putu Priyanka Sonia Dewi, Ari Yanuar Ridwan and Umar Yunan Kurnia Septo H, Information System Department School of Industrial Engineering, Telkom University, Bandung, 40257, Jawa Barat

ID 632 Development of Web-Based Occupational Safety and Health Management Information System (OSH-MIS) at Engineering Faculty of Diponegoro University

Manik Mahachandra and Jojor Kakanda Purba, Industrial Engineering Departement, Faculty of Engineering, Diponegoro University, Semarang, Indonesia

Ike Pertiwi Windasari. Computer Science Departement, Faculty of Engineering, Diponegoro University, Semarang, Indonesia

ID 633 Cognitive Differences between Senior and Younger Worker: A Mental State Examination

Kristiana Asih Damayanti, Ari Widyanti, and Yassierli, Industrial Engineering and Management Department, Institut Teknologi Bandung, Bandung, Indonesia

ID 634 Occupational Health and Safety in Classroom Facilities Layout When New Normal at Bali International University

I Gusti Agung Haryawan, Komang Angga Prihastini, Agnes Ayu Biomi, Occupational Health and Safety Study Program, Faculty of Health Sciences, International University of Bali, Indonesia

ID 635 Ergonomic Approach on Rail Industry Workers Using Rail Ergonomics Questionnaire

Dian Palupi Restuputri, Angelie Rekha Elvera, Adhi Nugraha, Ilyas Masudin, Industrial Engineering, University of Muhammadiyah Malang, Malang, East Java, Indonesia

ID 636 Survival Strategies for Small and Medium Enterprises (SME's) Due to the Covid-19 Pandemic Through Supply Chain Management: A State of the Art Literature Review

Kaleb Kurniawan, Saiful Mangngenre and Syarifuddin Mabe Parenreng, Industrial Engineering Department, Hasanuddin University, Gowa, South Sulawesi, Indonesia

ID 637 Optimum Route Design for Paper Waste Transportation Using Sequential Insertion: Waste Bank in Grobogan

Sri Hartini, Rani Rumita, and Gunawan Silalahi, Department of Industrial Engineering, Universitas Diponegoro, Semarang, 50275. Indonesia

ID 639 The Relationship Analysis between Physical and Mental workload with Work Fatigue in Extruder Section at PT. ABC

Fanisa Ismi Permatasari, Industrial Engineering Department, Universitas Muhammadiyah Surakarta, Bekasi, Indonesia

Muchlison Anis, Industrial Engineering Department, Universitas Muhammadiyah Surakarta, Surakarta, Indonesia

ID 640 Eliminating Unsafe Behaviour through the Implementation of Nudge Theory in Indonesian Industry

Andri Prabowo, Department of Industrial Engineering, Universitas Indonesia, Depok, Indonesia

Danu Hadi Syaifullah, Department of Industrial Engineering, Universitas Indonesia, Depok, Indonesia

ID 641 Occupational Stress Assessment and Its Impact on Job Performance during Work from Home

Audrey Maharani Bhinuko, Maya Arlini Puspasari, Department of Industrial Engineering, Faculty of Engineering, Universitas Indonesia, Kampus UI Depok, Indonesia

ID 642 Measurement of Situation Awareness on Pedestrians: An Exploratory Study

Gilang Hamzah Akbar, Budi Hartono, and Titis Wijayanto, Departement of Mechanical and Industrial Engineering, Universitas Gadjah Mada, Yogyakarta, Indonesia

ID 643 Mask Design For Children Aged 7-12 Years Based On Children's Convenience And Interest

Diah Meisi Roudatul Jannah, Master's Program in Visual Art, Faculty of Art and Design, Universitas Sebelas Maret, Indonesia

Lu'lu' Purwaningrum, Faculty of Art and Design, Universitas Sebelas Maret, Indonesia

ID 644 Lectures' Mental Workload During Covid-19 Pandemic Online Learning With NASA-TLX

Muhammad Syaiful Fathon, Industrial Engineering Departement, Universitas Muhammadiyah Surakarta, Surakarta, Indonesia

Etika Muslimah, Industrial Engineering Departement, Universitas Muhammadiyah Surakarta, Surakarta, Indonesia

ID 645 Framework of Virtual Reality Based Training System for Improving Stability and Gait of Lower Limb Prosthetic Users

Dwita Astari Pujiartati, Khoirul Muslim, Yassierli, Faculty of Industrial Technology, Institut Teknologi Bandung, Bandung, Indonesia

ID 646 Analysis of Work Posture and Proposed Improvement for Workers of Kaysa Taylor Clothing Home Industry

Umi Suci Melinda, Rani Aulia Imran, Amanda Sofiana, Industrial Engineering Department, Faculty of Engineering, Universitas Jenderal Soedirman, Purbalingga, Indonesia

ID 647 Restaurant Business Insights based on Zomato Online Food Marketplace Big Data Scraping

Erlinda Gilberta Wibawa, Parama Kartika Dewa, Teguh Siswantoro, Industrial Engineering Department, Universitas Atma Jaya Yogyakarta, Yogyakarta, Indonesia

ID 648 Potential Hazard Analysis for Higher Education Laboratory Building (Pilot Case Study in Industrial Technology Faculty)

Dicky Rahmadhani, Muhammad Ragil Suryoputro, Amarria Dila Sari, Industrial Engineering Department, Universitas Islam Indonesia, Yogyakarta, Indonesia

ID 649 Feasibility Study Analysis of Bottle Reverse Vending Machine Based on Value Engineering Concept using IoT Approach

Joko Wisnugroho, Civil Department, Faculty of Engineering, University of Indonesia, Depok, Indonesia

ID 650 The Application of The House of Quality Matrix in Developing Work Time Measurement Technology Prototypes

Euis Nina Saparina Yuliani and Muhammad Kholil, Industrial Engineering Study Program, Faculty of Engineering, Mercu Buana University, Jakarta, Indonesia

Ajeng Yeni Setianingrum, Industrial Engineering Study Program, Gajah Tunggal Polytechnic, Banten, Indonesia

ID 651 Consumer Behavior on Selection of Online Retail Stores

L.Nurul Huda, Jefry A. Sinaga, Nismah Panjaitan, Chindy E. Revadi, Chalis F. Hasibuan, Department of Industrial Engineering, Universitas Sumatera Utara, Medan, 20145, Indonesia

ID 652 The Effect Of Leadership Style And Organizational Culture On Employee Performance In Pt. Telkom Witel Aceh

Rekha Aulia Akharamah Ismi, Alex Winarno, Aditya Wardhana, Mahir Pradana, Tri Indra Wijaksana, Department of Business Administration

Telkom University, Bandung, 40257, Indonesia

Renaldi Renaldi, Universitas Andi Djemma, Jalan Puang H. Daud no. 4, Palopo Sulawesi Selatan, Indonesia

ID 654 The Relevance of Shorthand in the Modern Office from the Perspective of Human Resource Managers and Office Technology and Management Lecturers: A Case Study of Nigerian Colleges of Education of North-western States.

Muhammad Yahaya Musaa & Kahirol Mohd Sallehb, Faculty of Technical and Vocational Education Universiti Tun Hussein Onn Malaysia

ID 655 Measuring the Risk Level of Retail Sector for COVID-19 Infection

Jhon Lawrence G. Quimio, Maria Angelica D. Bare, Francee Mae F. Castro, and Ma.Janice J. Gumasing, School of Industrial and Engineering Management, Mapúa University, Intramuros, Manila

ID 656 COVID Risk Assessment: A Case of Employees in Academic Sector

William Davin D. Perez, Angelo Luis S. Doctora, Abigail B. Vasquez, Ma. Janice J.Gumasing, School of Industrial Engineering and Engineering Management, Mapua University, Muralla St., Intramuros, Manila

ID 657 Machine Learning-based Customer Churn Prediction and Sentiment Analysis Models for Online Educational Service

Ritzke Aisyarah, Praditya Ajidarma, and Dradjad Irianto, Industrial Engineering Program Study, Faculty of Industrial Technology, Institut Teknologi Bandung (ITB), Bandung, Indonesia

ID 658 Understanding Heterogeneity in CRM Chatbot User Preference

Rifki Ryandra Wijaya and Hasrini Sari, Department of Industrial Engineering, Institut Teknologi Bandung, Bandung 40132, Indonesia

ID 661 Residential Swimming Pool Design with Smart Lighting System

Steve Burns, Pieter-Jon Williams, Shaquille Kerr, Theo Salmon, Amonike Crossdale, Hopeton Irwin, Junior A. Bennett & Shanroy Dennis, School of Engineering, University of Technology, Jamaica

ID 662 Solar Powered Swimming Pool with Smart Lighting System

Shavae Scale, Adrian Francis, Rohando Malcolm, Lamanja Ellis, Kemar Green, Junior A. Bennett, and Glendon Lewis, School of Engineering, University of Technology, Jamaica

ID 664 Use of Blockchain in Vehicle Manufacturing Life Cycle Concept

Supriya Patil, PG Student, Department of Industrial Engineering, Vishwakarma Institute of Technology, Savitribai Phule Pune University, Pune, India

Sandeep Bade, PG Student, Department of Industrial Engineering, Vishwakarma Institute of Technology, Savitribai Phule Pune University, Pune, India

Prof. Dr. Varsha Karandikar, Department of Industrial Engineering, Vishwakarma Institute of Technology, Savitribai Phule Pune University, Pune, India

Prof. Sunil Kuber, Department of Industrial Engineering, Vishwakarma Institute of Technology, Savitribai Phule Pune

University, Pune, India

Anand Umrani, PhD Student, Department of Industrial Engineering, Vishwakarma Institute of Technology, Savitribai Phule Pune University, Pune, India

ID 665 Indonesian Health Insurance: Application of Digital Mobile Technology

Fredi Andria, Meli Deranti, Lisa Mila Sari, Department of Management, Faculty of Economics and Business, Pakuan University, Bogor Indonesia

Muhammad Mihradi, Department of Law, Faculty of Law Pakuan University, Bogor Indonesia

Abdul Talib Bon, Department of Production and Operations, University Tun Hussein Onn Malaysia, Malaysia

ID 666 Termination of Employment as an Economic Impact in Indonesia Due to the Covid-19 Pandemic is Reviewed from the Perspective of Employment Law

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

Abdul Talib Bon, Department of Production and Operations, University Tun Hussein Onn Malaysia, Malaysia

ID 667 Regulation of Sales Tax Relaxation on Luxury Goods (PPNBM) Based on Regulation of the Minister of Finance Number: 20/PMK.010/2021

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

Abdul Talib Bon, Department of Production and Operations, University Tun Hussein Onn Malaysia, Malaysia

ID 668 Does the Government Cyber Public Relations Influence to Public Attitudes And Intentions Vaccine?

Roni Jayawinangun, Diana Amaliasari, and Ismail Taufik Rusfien, Departement of Communication Science, Faculty of Social Science and Humanities, Pakuan University, Jl. Pakuan PO Box 452 16143 Bogor, Jawa Barat, Indonesia

Abdul Talib Bon, Department of Production and Operations, University Tun Hussein Onn Malaysia, Malaysia

ID 669 Determinants of Tax Avoidance: Evidence from Indonesian Listed Companies

Haqi Fadillah, Alda Zahara Mariani, and Joko Supriyanto, Accounting Department, Pakuan University, Kota Bogor, 16129, Jawa Barat, Indonesia

Abdul Talib Bon, Department of Production and Operations, University Tun Hussein Onn Malaysia, Malaysia

ID 670 Development of Personality and Organizational Justice Models in Improving Teacher Service Quality in the Educational 4.0

Henny Suharyati, Sri Setyaningsih, Kania Rubiati, Department of Education Administration, Graduate School, Universitas Pakuan, Indonesia

Abdul Talib Bon, Department of Production and Operations, University Tun Hussein Onn Malaysia, Malaysia

ID 671 Does The Bank Soundness Reflect The Firm Value?

Mutiara Puspa Widyowati, Shinta Berliana, Buntoro Heri Prasetyo, Faculty of Economics and Business, Pakuan University, Indonesia

Abdul Talib Bon, Department of Production and Operations, University Tun Hussein Onn Malaysia, Malaysia

ID 672 Perceptions of Instagram Social Media Accounts Users about Curug Cibulao Tourism Objects in Bogor Regency

Muslim, Tiara Puspanidra, Kusuma Dewa Pamungkas, Department of Communication Science, Faculty of Social and Cultural Science, Universitas Pakuan, Indonesia

Henny Suharyati, Department of Administration of Education, Graduate School, Universitas Pakuan, Indonesia

Abdul Talib Bon, Department of Production and Operations, University Tun Hussein Onn Malaysia

ID 673 Usability Testing on Student Document Management Application using Retrospective Think Aloud (RTA) and USE Questionnaire Methods

Halimah Tus Sadiah and Ema Kurnia, Information System Department, Universitas Pakuan, Jl. Pakuan, Bogor, 16143, West Java, Indonesia

Eneng Tita Tosida, Computer Science Department, Universitas Pakuan, Jl. Pakuan, PO Box 452, Bogor, 16143, West Java, Indonesia

Abdul Talib Bon, Department of Production and Operations, University Tun Hussein Onn Malaysia, Malaysia

ID 674 The Effect Of Work Discipline On Performance In Educational Institutions

Dedi Iskamto and Herispon, Sekolah Tinggi Ilmu Ekonomi Riau, Indonesia

Jenita, Faculty of Syariah and Law, Universitas Islam Negeri Sultan Syarif Kasim, Indonesia

Yulihardi, Fakultas Ekonomi, Universitas Baiturrahmah, Indonesia

Abdul Talib Bon, Department of Production and Operations, University Tun Hussein Onn Malaysia, Malaysia

ID 675 Forecasting The Spread of Covid-19 Disease Patients to Allocate The PPE for Medical Hospital Staffs in Indonesia

Silvi Istiqomah, Department of Industrial Engineering, Universitas Mahakarya Asia, Yogyakarta 55285, Indonesia

Master Program of Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Indonesia

Wahyudi Sutopo and Muh. Hisjam, Master Program of Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Indonesia

ID 676 What Are The Factors That Encourage People To Keep Buying Newspapers In The Digital Age?

Dedi Iskamto, Sekolah Tinggi Ilmu Ekonomi Riau, Indonesia

Wisdalia Maya Sari, Faculty of Economics and Business, Bina Insan University, Lubuklinggau, Sumatera Selatan Indonesia

Kurniati Karim, Sekolah Tinggi Ilmu Ekonomi (STIE) Sakti Alam Kerinci, Jambi, Indonesia.

Sri Langgeng Ratnasari, Magister Manajemen, Program Pascasarjana, Universitas Riau Kepulauan

Elkana Timotius, Universitas Kristen Krida Wacana, Jakarta, Indonesia

Abdul Talib Bon, Department of Production and Operations, University Tun Hussein Onn Malaysia, Malaysia

ID 677 Performance of the Markowitz Model Investment Portfolio in Some Mining and Energy Sector Stocks

Sukono, Betty Subartini, Department of Mathematics, Faculty of Mathematics and Natural Sciences, Universitas Padjadjaran, Indonesia

Guskenoly Fauziah, Undergraduate Program of Mathematics, Faculty of Mathematics and Natural Sciences, Universitas

Padjadjaran, Indonesia

Kalfin, Doctoral Program of Mathematics, Faculty of Mathematics and Natural Sciences, Universitas Padjadjaran, Indonesia

Yuyun Hidayat, Department of Statistics, Faculty of Mathematics and Natural Sciences, Universitas Padjadjaran, Indonesia

Abdul Talib Bon, Department of Production and Operations, University Tun Hussein Onn Malaysia, Malaysia

ID 678 Calculation of Pension Funds with Entry Age Normal and Attained Age Normal Approaches in the Projected Benefit Cost Method

Sukono, Riaman, Department of Mathematics, Faculty of Mathematics and Natural Sciences, Universitas Padjadjaran, Indonesia

Helen Debora Napitupulu, Undergraduate Program of Mathematics, Faculty of Mathematics and Natural Sciences, Universitas Padjadjaran, Indonesia

Kalfin, Doctoral Program of Mathematics, Faculty of Mathematics and Natural Sciences, Universitas Padjadjaran, Indonesia

Yuyun Hidayat, Department of Statistics, Faculty of Mathematics and Natural Sciences, Universitas Padjadjaran, Indonesia

Abdul Talib Bon, Department of Production and Operations, University Tun Hussein Onn Malaysia, Malaysia

ID 679 Forecasting the Number of Active Cases of COVID-19 in West Java Using the Multilayer Perceptron Feedforwards Neural Networks Method

Yuyun Hidayat, Dhika Surya Pangestu, Titi Purwandari, Enny Supartini

Department of Statistics, Faculty of Mathematics and Natural Sciences, Universitas Padjadjaran, Indonesia Sukono, Department of Mathematics, Faculty of Mathematics and Natural Sciences, Universitas Padjadjaran, Indonesia Abdul Talib Bon, Department of Production and Operations, University Tun Hussein Onn Malaysia, Malaysia

ID 680 Forecasting Covid-19 Active Cases in Bandung City Using the Long Short Term Memory

Yuyun Hidayat, Mohammad Niks Iksan, Titi Purwandari, Enny Supartini, Department of Statistics, Faculty of Mathematics and Natural Sciences, Universitas Padjadjaran, Indonesia

Sukono, Department of Mathematics, Faculty of Mathematics and Natural Sciences, Universitas Padjadjaran, Indonesia

Abdul Talib Bon, Department of Production and Operations, University Tun Hussein Onn Malaysia, Malaysia

ID 681 Predicting Potential Cases of Natural Disasters in Indonesia Using the Homogeneous Poisson Process

Kalfin, Doctor Program of Mathematics, Faculty of Mathematics and Natural Sciences, Universitas Padjadjaran, Indonesia

Sukono, Sudradjat Supian, Department of Mathematics, Faculty of Mathematics and Natural Sciences, Universitas Padjadjaran, Indonesia

Mustafa Mamat, Faculty of Informatics and Computing, Universiti Sultan Zainal Abidin, Kuala Terengganu, Malaysia

Abdul Talib Bon, Department of Production and Operations, University Tun Hussein Onn Malaysia, Malaysia

ID 682 The Effect of Financial Ratios on Firm Value: Empirical Evidence from Property and Real Estate Sector Companies Listed on the IDX

Ratih Hadiantini, Ayu Nike Retnowati, Susan Purnama, Aninditha Putri Kusumawardhani,

Department of Management, Faculty of Economics and Business, Universitas Informatika dan Bisnis Indonesia (UNIBI), Bandung, Indonesia

Abdul Talib Bon, Department of Production and Operations, University Tun Hussein Onn Malaysia, Malaysia

ID 683 The Effect of Earnings Management, Liquidity Ratio, Solvency Ratio and Profitability Ratio on Bond Ratings in the Property Sector Listed on the IDX

Susan Purnama, Aninditha Putri Kusumawardhani, Ratih Hadiantini, Ayu Nike Retnowati

Department of Management, Faculty of Economics and Business, Universitas Informatika dan Bisnis Indonesia (UNIBI), Bandung, Indonesia

Abdul Talib Bon, Department of Production and Operations, University Tun Hussein Onn Malaysia, Malaysia

ID 684 Underwriting Factor for Determination of Health Insurance Premium Based on Generalized Linear Models (GLMS) Procedure

Riaman, Sukono, Department of Mathematics, Faculty of Mathematics and Natural Sciences, Universitas Padjadjaran, Indonesia

Abdul Talib Bon, Department of Production and Operations, University Tun Hussein Onn Malaysia, Malaysia

ID 696 in Indonesia from Rome 2021 Risk Management Software Platform ZOTY for SMEs

Martin Hirman, Andrea Benesova, Michal Svehla, Jiri Tupa, Frantisek Steiner, Tomas Rericha, Department of Technologies and Measurement, University of West Bohemia, Univerzitni 8, 306 14 Pilsen, Czech Republic Zdenek Kocourek, Petr Humpolicek, IDS Advisory s.r.o., Otiskova 2823/30, Líšeň, 628 00 Brno, Czech Republic

ID 697 Techno-Economic Feasibility Analysis of Agricultural Drone Business in Indonesia

Nida An Khofiyah, Master Program of Industrial Engineering Department, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Indonesia

Muhammad Hisjam, University Centre of Excellence for Electrical Energy Storage Technology, Universitas Sebelas Maret, Surakarta, Indonesia

Wahyudi Sutopo, Research Group Industrial Engineering and Techno-Economic, Department of Industrial Engineering, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Jl. Ir. Sutami, 36 A, Surakarta, Indonesia

ID 700 A Bibliometric Analysis in the Topic of Economic Resilience and Disturbance

Titi Purwandari, Doctoral Program in Mathematics, Faculty of Mathematics and Natural Sciences Universitas Padjadjaran, Bandung, West Java,

Sukono, Department of Mathematics, Faculty of Mathematics and Natural Sciences Universitas Padjadjaran, Bandung, West Java, Indonesia

Yuyun Hidayat, Department of Statistics, Faculty of Mathematics and Natural Sciences Universitas Padjadjaran, Bandung, West Java, Indonesia

Wan Muhamad Amir Bin W Ahmad School of Dental Sciences, Universiti Sains Malaysia (USM), Health Campus, 16150 Kubang Kerian, Kota Bharu, Kelantan, Malaysia

Abdul Talib Bon, Department of Production and Operations, University Tun Hussein Onn Malaysia, Malaysia

ID 701 ARMA-GJR-GARCH Model for Determining Value-at-Risk and Back testing of Some Stock Returns

Rizki Apriva Hidayana1*, Sukono2, Herlina Napitupulu3

- 1 Master of Mathematics Studi Program, Faculty of Mathematics and Natural Sciences, Universitas Padjadjaran, Jatinangor, Indonesia
- 2,3 Department of Mathematics, Faculty of Mathematics and Natural Sciences, Universitas Padjadjaran, Jatinangor, Indonesia

ID 702 Heuristic Algorithm to Minimize Maximum Lateness for Job-shop Scheduling Problem in Automotive Industry

Docki Saraswati, Debbie Kemala Sari and Nesya Dwi Permata, Department of Industrial Engineering, Universitas Trisakti, Jakarta, Indonesia

ID 703 The Influence Of Good Corporate Governance, Audit Quality, Profitability, And Leverage On Financial Statement Integrity (Empire Study On Basic Industry & Chemicals Manufacturing Companies In Bei):

Saiful Anam, Nurrohman Hari Mulyono, Inuk Wahyuni Istiqomah, Ade Setia Pratama, Ahmad luthfi, Putri Ambarwati, Accounting Study Program, Faculty Economy, STIE Al Anwar Mojokerto, Indonesia

Rony Wardhana, Faculty Economy and Business, Universitas Narotama Surabaya, Indonesia, Student of Doctoral

Accounting, Universitas Airlangga Surabaya, Indonesia

Abdul Talib Bin Bon, Fakulti Pengurusan Teknologi dan Perniagaan, Universiti Tun Hussein Onn Malaysia (UTHM), Johor, Malaysia

ID 704 Effect of Good Corporate Governance, Profitability, Firm Size, and Intellectual Capital on Company Value (Empirical Study of NON-Financial Companies LQ45 Index Listed on Indonesia Stock Exchange)

Nurrohman Hari Mulyono, Saiful Anam, Inuk Wahyuni Istiqomah, Ade Setia Pratama, Rizki Arvita, Risa Mayasari, Munzidahtul Aidha, Accounting Study Program, Faculty Economy, STIE Al Anwar Mojokerto, Indonesia

Rony Wardhana, Faculty Economy and Business, Universitas Narotama Surabaya, Indonesia, Student of Doctoral Accounting, Universitas Airlangga Surabaya, Indonesia

Abdul Talib Bin Bon, Fakulti Pengurusan Teknologi dan Perniagaan, Universiti Tun Hussein Onn Malaysia (UTHM), Johor, Malaysia

ID 705 Risk Management for Frozen Food Halal Supply Chain (an Indonesian Company Case Study)

Bunhamah Robiatul Adawiyyah and Dwi Agustina Kurniawati

Optimization, Operation Research and Industrial System Research Group (2ORIS-RG), Industrial Engineering Department, Faculty of Science and Engineering, Universitas Islam Negeri Sunan Kalijaga, Yogyakarta, Indonesia

Azanizawati Ma'aram, Noordin Mohd Yusof and Nor Hasrul Akhmal Ngadiman, School of Mechanical Engineering, Faculty of Engineering

Universiti Teknologi Malaysia, Johor, Malaysia

Harisun Ya'akob, School of Chemical and Energy Engineering, Faculty of Engineering, Universiti Teknologi Malaysia, Johor, Malaysia

ID 707 Analysis and Design of Precast Concrete Product Quality Improvement at PT. XYZ using the DMAIC and FMEA Method

Sakinah, Department of Industrial Engineering, Faculty of Engineering, Universitas Sebelas Maret, Surakarta, Indonesia

Wahyudi Sutopo, Professor, Department of Industrial Engineering, Past Head of Department of Industrial Engineering, Head of Industrial Engineering and Techno-Economics Research Group, Vice Dean for Human Resources, Finance, and Logistics, Faculty of Engineering, Universitas Sebelas Maret (UNS), Surakarta, Indonesia and President, IEOM Indonesia Chapter

ID 708 The Effect Of Strategic Flexibility, Strategic Innovation, Job Satisfaction And Employee Performance In The Covid-19 Pandemic: Study On Small And Medium Clothing Industry In East Java Province

Mirhamida Rahmah, Noermijati Noermijati, Achmad Sudiro, Mintarti Rahayu, Doctorate Program Management Department, Faculty of Economics and Business, University Brawijaya, Malang, Indonesia

ID 710 Utilizing Local Wisdom Community towards a Healthy Food Industry: a Preliminary Research of Torbangun Leaves Biscuit

Donal Nababan, Department of Public Health, Universitas Sumatera Utara Medan, Indonesia

Rizabuana Ismail, Master's of Sociology Program, Universitas Sumatera Utara, Medan, Indonesia

Ivana Tiar, Universitas Negeri Jakarta, Jakarta, Indonesia

ID 711 Warehouse Arrangement Improvement Based on 5S Method for CV Javatech Agro Persada

Muhammad Tohari, Manik Mahachandra, Department of Industrial Engineering, Faculty of Engineering, Universitas Diponegoro

Jl. Prof. Soedarto, SH, Kampus Undip Tembalang, Semarang, Indonesia 50275

ID 715 Factors Influencing the SME Performance in The United Arab Emirates

Saeed Khalifan RASHEED GHANEM, and Nor Aziati Abdul Hamid, Faculty of Technology Management and Business, Universiti Tun Hussein Onn Malaysia 86400 Parit Raja, Batu Pahat, Johor.

ID 716 The Relationship Technological, Organizational, and Environmental Factors, Social Media Adoption and SMEs Performance

Saeed Khalifan RASHEED GHANEM, Nor Aziati Abdul Hamid, Faculty of Technology Management and Business, Universiti Tun Hussein Onn Malaysia 86400 Parit Raja, Batu Pahat, Johor.

ID 719 Implementation Decision Support System on Decision Making in the Organization of Himpunan Mahasiswa Islam

Ilham Djufri, Akademi Ilmu Komputer Ternate, Indonesia

Ismail Suardi Wekke, Institut Agama Islam Negeri (IAIN) Sorong, Indonesia

Asosiasi Dosen Insan Cita Indonesia, Indonesia

Ibnu Hajar Sainuddin, Sekolah Tinggi Agama Islam Darud Dakwah Wal-Irsyad Makassar, Indonesia

Muhammad Makbul, Institut Sains dan Teknologi An-Nuriyah Makassar, Indonesia

ID 720 Roles of Competence on the Effect of Training and Development Systems on Work Productivity at Universal Corporation Human Resource Management

Wanda Echoes Prasidio Akbar Hidayat, Doctoral Program in Human Resource Development Studies,

Airlangga University Graduate School, Surabaya, Indonesia

Cholichul Hadi, Faculty of Psychology Universitas Airlangga, Surabaya, Indonesia

Subagyo Adam, Faculty of Social and Political Sciences, Universitas Airlangga, Surabaya, Indonesia

Dimas Agung Trisliaanto, Doctoral Program in Human Resource Development Studies, Airlangga University Graduate School

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 Makbul, Institut Sains dan Teknologi An-Nuriyah Makassar, Indonesia

ID 721 Analysis of Potential Regeneration and Dispersal Patterns of Sago Palm (Metroxylon Sagu Rott ver molat (Becc)) in Natural Habitat, Bajo Barat District, Indonesia

Hadijah Azis Karim, Universitas Andi Djemma, Palopo, Indonesia

Ashar Ashar, Universitas Andi Djemma, Palopo, Indonesia

Witno Witno, Universitas Andi Djemma, Palopo, Indonesia

Andi Dewi Angreyani, Universitas Andi Djemma, Palopo, Indonesia

Muhammad Haekal, Universitas Andi Djemma, Palopo, Indonesia

Abri Hadi, Universitas Andi Djemma, Palopo, Indonesia

Diah Mustika, Forestry Instructor, Kesatuan Pengelolaan Hutan Produksi (KPHP) Manubar, Dinas Kehutanan Provinsi Kalimantan Timur, Indonesia

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

ID 722 Emotional Intelligence on Students' Learning Achievement in High School of Makassar, Indonesia

Muhammad Makbul, Institut Sains dan Teknologi An-Nuriyah Makassar, Indonesia

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

Dewi Saputri Sussang, UIN Alauddin Makassar, Indonesia

Amin Rais, UIN Alauddin Makassar, Indonesia

Nurlathifah Thulfitrah Baharuddin, UIN Alauddin Makassar, Indonesia

Matahari Muhizar Manaf, Universitas Pendidikan Muhammadiyah Sorong, Indonesia

ID 723 After the Forest Burning: Where Should the Malind's Tribe in Papua Belong?

Tarmizi Abbas, Universitas Gadjah Mada, Indonesia

Rudihartono Ismail, Universitas Amal Ilmiah Yapis wamena, Indonesia

Ismail Suardi Wekke, Institut Agama Islam Negeri (IAIN) Sorong, Indonesia, The Jusuf Kalla Research Center for Bugis Makassar Cultural Studies, Indonesia

Muhammad Makbul, Institut Sains dan Teknologi An-Nuriyah Makassar, Indonesia

ID 725 Factors Influencing SME Performance: The Mediating and Moderating Role of Social Media Adoption and Organizational Culture

Saeed Khalifan RASHEED GHANEM, Nor Aziati Abdul Hamid, Faculty of Technology Management and Business, Universiti Tun Hussein Onn Malaysia 86400 Parit Raja, Batu Pahat, Johor.

ID 726 Communication Skills during Online Learning among Business Students: Does it Match with Business Case Method?

Cut Irna Setiawati, Business Administration Department, Telkom University Jl. Telekomunikasi No. 1, Bandung, Indonesia

Ade Irma Susanty, Business Administration Department, Telkom University Jl. Telekomunikasi No. 1, Bandung, Indonesia

ID 731 Speaker 1

DR. REKHA PRASAD, RETIRED PROFESSOR, IM BHU

ID 732 Speaker 2

Laila El Abbadi, Professor, Department of Informatics, Logistics and Mathematics, Head of Industry, Logistics, Data Analysis and Protection Research Group, National Schools of Applied Sciences of Kenitra, Ibn Tofail University, Kenitra, Morocco, Faculty Advisor, IEOM Ibn Tofail University Chapte

ID 733 Speaker 3

Auditya Purwandini Sutarto, Department of Industrial Engineering, Faculty of Engineering, Universitas Qomaruddin Gresik

ID 734 Speaker 4

Adnan Hassan, Department of Materials, Manufacturing & Industrial Engineering, School of Mechanical Engineering, Universiti Teknologi Malaysia, Skudai, Johor 81310, Malaysia

ID 735 Speaker 5

Habibah Norehan Hj Haron, Razak Faculty of Technology and Informatics, Universiti Teknologi Malaysia, Kuala Lumpur, Malaysia

Farhan bin Mohamed, University Industry Research Laboratory, Universiti Teknologi Malaysia, Johor Bahru, Malaysia

Muhammad Ismail Mat Isham and Chan Vei Siang, School of Computing, Faculty of Engineering, Universiti Teknologi Malaysia, Johor Bahru, Malaysia

ID 736 Speaker 6

Markus Hartono, Department of Industrial Engineering, University of Surabaya, Jalan Raya Kalirungkut, Tenggilis, Surabaya 60293, Indonesia