



UMS

Faculty of Engineering

Universitas Muhammadiyah Surakarta

CERTIFICATE

This certificate is awarded for his/her achievement to/as

Rusfina Widayati

PRESENTER

in the event of

The 9th International Conference on engineering, Technology, and Industrial Application

ICETIA 2022

Surakarta - Indonesia, 13th-14th December 2022

Dean of Faculty of Engineering
Universitas Muhammadiyah Surakarta



Assc. Prof. Rois Fatoni, S.T., M.Sc., Ph.D

The 9th ICETIA 2022 Conference Chair



Dr. Agung Sugiharto, S.T., M.Eng.



Acceptance of Full Paper

No: 589.150/A.6-V/FT/XII/2022

Dear **Rusfina Widayati, Hikmah Mayasari, Andi Prasetyo Wibowo, Astri Anindya Sari, Rendy Perdana Khidmat,**

We would like to inform the status of your paper for the International Conference on Engineering Technology and Industrial Application (9th ICETIA 2022) with these following details:

Paper ID	150
Paper Title	The COVID-19 Pandemic as a Force Majeure; Dual Perspective Between Islamic Development Bank's Guideline and Peraturan Presiden No. 16 Tahun 2018
Status	Accepted for oral presentation
Publication	Scopus-indexed conference proceeding

Kindly refer to these following notes:

- Details review process might have been in progress. Please login to your account on the submission website to see the detail review result and update from the reviewers: <http://icetia.ums.ac.id/submit>
- The final manuscript revision should be submitted to the submission system not later than **December 10th 2022**
- There will be no standalone ICETIA 2022 papers since all revised and accepted papers will be published in a Scopus-indexed Conference Proceeding or journals.
- At this stage, kindly make sure that the article follows AIP format. Only selected papers will need to be reformatted according to journals requirement. The decision whether the article would be promoted to be published in the journals will be informed later.
- Authors should register online and make the payment for registration not later than **December 7th 2022**. All presenters need to register as a participant in order to receive a presenter or participant certificate.
- After you have registered online, the payment can be sent to:
 - Name of Bank: BANK NEGARA INDONESIA - (code: 009)
 - Account Number: 0833074464
 - Name of Account Holder: Fakultas Teknik UMS
 - Swift Code: BNINIDJAXXX
- Applicants then should submit the proof of payment by filling the form here: <https://bit.ly/IcetiaPayment2022>
- In addition, for registered participant of ICETIA IX/RAPI XXI, Engineering Faculty of Universitas Muhammadiyah, also will be hosted a **Short Course on "INTRODUCTION TO SAFETY SOFTWARE: EFFECTS AND RISK CURVES"** at **December 14th 2022, 9-12 am**. Registrasion Link : <https://forms.gle/PuAmX87rgC4jpaPy7>. Detailed information on this event is included in the flyer, as attached with this letter.
- For further information, please visit the conference website at <http://icetia.ums.ac.id/2022/>. If you wish to obtain more information, you may also contact the Conference Committee by phone (+62 271 717417 ext. 3253) or email (icetia@ums.ac.id). We look forward to welcoming you on the conference.

Surakarta, 2nd December 2022



Dr. Agung Sugiharto
Chair of 9th ICETIA 2022

SHORT COURSE

INTRODUCTION TO SAFETY SOFTWARE: EFFECTS AND RISKCURVES

IN CONJUNCTION WITH ICETIA IX AND RAPI XXI

FACULTY OF ENGINEERING,
UNIVERSITAS MUHAMMADIYAH SURAKARTA

ABOUT THIS COURSE

This short course will introduce the principles of consequence modelling and the EFFECTS user interface and giving an overview of several models available within the software, such as release and explosion, dispersion, and combined models. The course provides a general theoretical background that is consolidated with multiple practical exercises that will be elaborated during the course. Participants will be explained on how to practice and to apply their new knowledge through software demonstration/hands-on experience. This event is limited for **all registered ICETIA IX/RAPI XXI participant only**. However, offline mode will also be available where the participant could have hands-on experience in using the EFFECTS and RISKCURVES software. **The offline mode is only limited for 10 participants only (first-come first-served basis)**. In addition, the RISKCURVES course extends the EFFECTS course and provides information about what a Quantitative Risk Assessment (QRA) consists of, which risk criteria can be used, and of course how to conduct it using the RISKCURVES tool. The course also provides basic information regarding RISKCURVES' functionality and how to apply the software in QRA studies

ADMISSION

FREE

(open for registered ICETIA IX/RAPI XXI participant only)

REGISTRATION LINK

<https://forms.gle/PuAmX87rgC4jpaPy7>

(registration link will be closed on Dec, 12th 2022)

INSTRUCTOR



**Alimatun Nashira,
S.T., M.Eng**

*(Certified instructor for EFFECTS
and RISKCURVES softwares)*



**Anisa Ur Rahmah,
Ph.D**

*(Certified instructor for EFFECTS
and RISKCURVES softwares)*

The event will be held on

 **31 Wednesday/December 14th 2022**

 **09.00 - 12.00 a.m.**

ONLINE MODE 

OFFLINE MODE

Laboratorium Komputasi Teknik Kimia
Gedung H, Lantai 3, Kampus 2
Universitas Muhammadiyah Surakarta



GENERAL SCHEDULE

**The 9th International Conference on Engineering, Technology, and
Industrial Application (ICETIA)
The 21st National Conference on Rekayasa Aplikasi Perancangan dan Industri (RAPI)
13-14 December 2022**

Time	Activities	Notes
Tuesday, 13 Dec 2022: The conferences		
07.30	Open zoom meeting	https://s.id/KeynoteSession-ICETIARAPI2022 1. Basir Wismoyo Jati, S.Kom 2. Muhammad Lutfi Arsyad, S.Kom
08.00 - 08.50 Opening ceremony		
08.00 - 08.05	Opening by MC	1. Mira Septikahwati 2. Muhammad Arhab Ath-tariq
08.05 - 08.15	Recitation of The Holy Quran	Andi Rezti Maharani
08.15 - 08.25	Singing Indonesia Raya	All participants
08.15 - 08.25	Singing Sang Surya	All participants
08.25 - 08.50	Opening speech:	
08.25 - 08.50	Chair comitte	Dr Agung Sugiharto, ST., M.Eng
08.25 - 08.50	Rector UMS	Prof. Dr. Sofyan Anif, M.Si
08.50 - 09.00	Break and panel preparation	
09.00 - 10.45 Panel session 01		
09.00 - 09.05	Panel opening	1. Mira Septikahwati 2. Muhammad Arhab Ath-tariq
09.05 - 09.10	Moderator	Akida Mulyaningtyas, ST., MSc., PhD
09.10 - 09.40	Keynote speaker 01	Dr. Yudhi Ariadi (Coventry University, United Kingdom)
09.40 - 09.45	Moderator	Akida Mulyaningtyas, ST., MSc., PhD
09.45 - 10.15	Keynote speaker 02	Prof. Dr. Waleed Fekry Faris (International Islamic University Malaysia (IIUM))
10.15 - 10.45	Discussion	
10.45 - 14.00 Panel session 02		
10.45 - 11.00	Announcements	1. Mira Septikahwati
11.00 - 11.05	Panel opening	2. Muhammad Arhab Ath-tariq
11.05 - 11.10	Moderator	Eko Setiawan, ST., MT., PhD
11.10 - 11.40	Keynote speaker 03	Ass. Prof. Muhammad Mujiburohman, PhD, Chemical Engineering Department, Universitas Muhammadiyah Surakarta (UMS), Indonesia
11.40 - 11.55	Discussion	
11.55 - 13.00	Lunch break and dzuhur prayer	

Time	Activities	Notes
13.00 - 13.05	Moderator	Eko Setiawan, ST., MT., PhD
13.05 -13.35	Keynote speaker 04	Dr. Fatwa Firdaus Abdi (Institute for Solar Fuels, Helmholtz-Zentrum Berlin (HZB), BerlinGermany)
13.35 - 13. 50	Discussion	
13.50 - 14.00	Announcements	1. Mira Septikahwati 2. Muhammad Arhab Ath-tariq
14.00 - 15.00	Parallel session 01	
15.00 - 15.30	Break and asar prayer	
15.30 - 17.00	Parallel session 02	
	Closing day 01	
Wednesday, 14 Dec 2022: Short course: Introduction to Safety Software: Effects and Riskcurves		
09.00 - 12.00	Short course	https://s.id/PelatihanOnline-EffectsRiskcurves
	Closing day 02	

PARALLEL SESSION
The 9th International Conference on Engineering, Technology, and
Industrial Application (ICETIA)
13-14 December 2022

Day/Date	:	Tuesday/13 December 2022
Time	:	14.00 - 17.00
Group	:	Green computing and IoT
Room	:	01
Breakout room	:	Icetia room 1
Chair	:	Dedi Ary Prasetya, S.T., M.Eng
Co-chair	:	'Afiful Fida' Lestiawan

Paper ID	Time	Title/Author	Presenter
114	14.00 - 14.10	Dominant Factors of Change Control System in the Warehouse Project Based on BIM 5D	Sarah Salsabila Fitri Indriani, Universitas Indonesia (UI)
		<i>Sarah Salsabila Fitri Indriani, Yusuf Latief</i>	
116	14.10 - 14.20	A Systematic Literature Review of TinyML for Environmental Radiation Monitoring System	Istofa, Badan Riset dan Inovasi Nasional (BRIN)
		<i>Istofa, Prawito Prajitno, I Putu Susila</i>	
	14.20 - 14.30	Discussion	<i>for 2 topics presented</i>
182	14.30 - 14.40	Design and Performance Testing of Automated Incubator for Oyster Mushroom (<i>Pleurotus Ostreatus</i>) Cultivation	Heru Supriyono, Universitas Muhammadiyah Surakarta (UMS)
		<i>Heru Supriyono, Wildan Prakoso, Nafrizuan Mat Yahya</i>	
192	14.40 - 14.50	Automatic Power Transfer Switch with Internet of Things Based Monitoring System	Agus Supardi, Universitas Muhammadiyah Surakarta (UMS)
		<i>Agus Supardi, Zata Amalina Binava</i>	
	14.50 - 15.00	Discussion	<i>for 2 topics presented</i>
	15.00 - 15.30	Break and asar prayer	
178	15.30 - 15.40	Automatic and Remote-Control Bird Pest Expulsion System	Ratnasari Nur Rohmah, Universitas Muhammadiyah Surakarta (UMS)
		<i>Ratnasari Nur Rohmah, Wahyu Y. Aldianto, Nurokhim, B. H. Purwoto</i>	
152	15.40 - 15.50	Risks In The Use of BIM 5D In The Estimated Cost of The Project Tender Phase	Mutia Hanuun Ufaira Akbar, Universitas Indonesia (UI)
		<i>Mutia Hanuun Ufaira Akbar, Yusuf Latief</i>	
	15.50 - 16.00	Discussion	<i>for 2 topics presented</i>

Paper ID	Time	Title/Author	Presenter
169	16.00 - 16.10	IoT-Based fertilizer recommendation system <i>Isbat Uzzin Nadhori, Ahmad Syauqi Ahsan, Arif Basofi, Dwi Febriyanti</i>	Isbat Uzzin Nadhori, Politeknik Elektronika Negeri Surabaya
160	16.10 - 16.20	Occupancy Detection Through Machine Learning and Environmental Data <i>Abdi Suryadinata Telaga, Salmaa Rihhadatul 'Aisy, Sekar Putri Arumi</i>	Abdi Suryadinata Telaga, Politeknik Astra
	16.20 - 16.30	Discussion	<i>for 2 topics presented</i>
115	16.30 - 16.40	Monitoring the Potential of Horizontal Axis Wind Power Plants Based on the Internet of Things <i>Hartawan Abdillah, A.N. Afandi, Aripriharta, Yuni Rahmawati, Moh. Zainul Falah, Goro Fujita</i>	AN Afandi, Universitas Negeri Malang
199	16.40 - 16.50	Design of a DC Generator Monitor System in real time on Internet of Things-based Static Bikes <i>Hasyim Asyari, Abdul Basith, Tasya Fadila</i>	Hasyim Asyari, Universitas Muhammadiyah Surakarta (UMS)
	16.50 - 17.00	Discussion	<i>for 2 topics presented</i>
	17.00	Closing	

Day/Date	:	Tuesday/13 December 2022
Time	:	14.00 - 17.00
Group	:	Green Energy
Room	:	02
Breakout room	:	Icetia room 2
Chair	:	Dr. Nur Aklis, S.T, M.Eng
Co-chair	:	Regita Asharani

Paper ID	Time	Title/Author	Presenter
138	14.00 - 14.10	A Simple Method for Increasing the Si/Al Ratio in Natural Zeolite: A Morphology and Crystallinity Study <i>Imron Rosyadi, Suyitno, Zainal Arifin, Tata Sutardi, Wibawa Endra Juwana, Nasrul Ilminnafik</i>	Imron Rosyadi, Universitas Sebelas Maret (UNS)
151	14.10 - 14.20	Solar Photovoltaic Generation for Contributing Electric Power Demand at Educational Building <i>Agus Ulinuha, Hasyim Asy'ary, Umar Hasan, Bayu A. Saputra</i>	Agus Ulinuha, Universitas Muhammadiyah Surakarta (UMS)
	14.20 - 14.30	Discussion	<i>for 2 topics presented</i>
113	14.30 - 14.40	Investigation of Slagging Fouling Aspect of Palm Fiber and Palm Leaves Waste in Drop Tube Furnace <i>Fairuz Milkiy Kuswa, Prabowo, Arif Darmawan, Hariana</i>	Fairuz Milkiy Kuswa, Institute of Technology Sepuluh November (ITS)
108	14.40 - 14.50	Analysis of the Characteristics of Palm Oil Trunk Waste as Co-Firing Fuel for Power Plant <i>Ade Sana Ruhiyat, Adi Prismantoko, Hanafi Prida Putra, Nimas Mayang Sabrina Sunyoto, Moch Zulfikar Eka Prayoga, Bambang Arip Dwiantoro, Hariana</i>	Ade Sana Ruhiyat, National Research and Innovation Agency, Indonesia (BRIN)
	14.50 - 15.00	Discussion	<i>for 2 topics presented</i>
	15.00 - 15.30	Break and asar prayer	
142	15.30 - 15.40	Effectiveness Test and Comparison Effect of Oyster Mushroom Baglog Waste Composition (Pleurotus Ostreatus) into Alternative Energy for Charcoal Briquettes <i>Rika Maria Susiati, Suparni Setyowati Rahayu, Angge Dhevi Warisaura</i>	Rika Maria Susiati, AKPRIND Institute of Science and Technology Yogyakarta
146	15.40 - 15.50	Study On Selection Of Turbine Design And Sizing Of Transmission Cable For Development Of Pico Hydro Power Plant At Dewi Bukit Mangggung Tourism Place Tanjungsiang, Subang, West Java <i>Dadang Dayat Hidayat, Maulana Furqon, Ari Rahayuningtyas, Umi Hanifah, Teguh Santoso</i>	Dadang Dayat Hidayat, Research Center for Appropriate Technology, National Research and Innovation Agency, Indonesia (BRIN)
	15.50 - 16.00	Discussion	<i>for 2 topics presented</i>

Paper ID	Time	Title/Author	Presenter
185	16.00 - 16.10	Identification of Air Temperature at the Sultanate Mosque Based on Altitude in Ternate <i>M. Tayeb Mustamin, Nasrullah, Sayyid Quraisy, Awaluddin Hamdy, Ansarullah</i>	M. Tayeb Mustamin, Khairun University, Indonesia
135	16.10 - 16.20	Small-Scale Hydrokinetic Turbine (HKT) Performance with Protective Compartment In A River Flow <i>Cheng Yee Ng, Muhammad Amir Izzat Bin Abu Zulkarnain, Nauman Riyaz Maldar, Lee Woen Ean, Hooi Siang Kang</i>	Cheng Yee Ng, Universiti Teknologi PETRONAS (UTP), Malaysia
	16.20 - 16.30	Discussion	
125	16.30 - 16.40	Implementation of Clustering Analysis on Solar Panels Adoption by MSMEs in Banyumas Regency <i>Famila Dwi Winati, Anastasia Febiyani, Prisilia Rahayu Cahyaningtyas, Amanda Aziz P. Ramadhani</i>	Famila Dwi Winati, Institut Teknologi Telkom Purwokerto
186	16.40 - 16.50	Multiple Linear Regression Analysis of the Degradation Process of Congo Red Using Ferrate <i>Agung Sugiharto, Anggara Agung Setioadi, Siti Fatimah</i>	Agung Sugiharto, Universitas Muhammadiyah Surakarta (UMS)
	16.50 - 17.00	Discussion	<i>for 2 topics presented</i>
	17.00	Closing	

Day/Date	:	Tuesday/13 December 2022
Time	:	14.00 - 16.30
Group	:	Material Engineering
Room	:	03
Breakout room	:	Icetia room 3
Chair	:	Dr. Ir. Ahmad M. Fuadi, M.T.
Co-chair	:	Muhammad Rizki Hidayat

Paper ID	Time	Title/Author	Presenter
163	14.00 - 14.10	Seismic Fragility of High Voltage Transmission Tower Due to Earthquake by Using Adaptive Pushover Method <i>Hanif Nanda Syahputra, Senot Sangadji, Halwan Alfisa Saifullah</i>	Hanif Nanda Syahputra, Universitas Negeri Sebelas Maret (UNS)
139	14.10 - 14.20	Influence of Tempering Time on the Microstructure, Hardness and Impact Toughness of Ductile Cast Iron <i>Herry Oktadinata, Sri Mulyati Latifah, Sastrawan Sastrawan</i>	Herry Oktadinata, Universitas Jenderal Achmad Yani
	14.20 - 14.30	Discussion	<i>for 2 topics presented</i>
164	14.30 - 14.40	Seismic Fragility Evaluation of Power Line using Incremental Dynamic Analysis Method <i>Deby Ika Hariani, S Sangadji, H A Saifullah</i>	Deby Ika Hariani, Universitas Negeri Sebelas Maret (UNS)
155	14.40 - 14.50	Study on Thermal Behaviour of Tungsten Cemented Carbide Tip Scraps <i>Cecep Ruskandi, Darma Firmansyah Undayat, Gita Novian Hermana, Muhammad Rizki Gorbyandi Nadi, Wiwik Purwadi</i>	Cecep Ruskandi, Bandung Polytechnic for Manufacturing
	14.50 - 15.00	Discussion	<i>for 2 topics presented</i>
	15.00 - 15.30	Break and asar prayer	
103	15.30 - 15.40	Improvement of Multipurpose Room Acoustic System with the Use of Porous Ceramic Diffuser-Absorber from natural water hyacinth fiber <i>Erni Setyowati, Gagoek Hardiman, Nur Farida Grafiana</i>	Erni Setyowati, Universitas Negeri Diponegoro (UNDIP)
189	15.40 - 15.50	THE EFFECT OF ACTIVATOR CONCENTRATION AND UREA DOPING ON THE CHARACTERISTICS OF SHRIMP WASTE CHARCOAL-BASED ACTIVE CARBON AS A SUPERCAPACITOR ELECTRODE <i>S. Khuzaimah, M. Mujiburohman, Agung Sugiharto, Tri Widayatno, Ahmad Fuadi</i>	S. Khuzaimah, Universitas Muhammadiyah Surakarta (UMS)
	15.50 - 16.00	Discussion	<i>for 2 topics presented</i>

Paper ID	Time	Title/Author	Presenter
124	16.00 - 16.10	Synthesis of Diethanolamide Surfactant from Palm Oil by Esterification and Amidation Processes	Harsa Pawignya, Universitas Pembangunan Nasional (UPN) "Veteran" Yogyakarta
		<i>Harsa Pawignya, Nur Fanila, Ananda Putri Mellinia</i>	
195	16.10 - 16.20	Java's South Beach Sand as a Noise Absorbing Material Innovation	Nur Rahmawati Syamsiyah, Universitas Muhammadiyah Surakarta (UMS)
		<i>Nur Rahmawati Syamsiyah, Rini Hidayati, Dhani Mutiari, Wisnu Setiawan</i>	
	16.20 - 16.30	Discussion	<i>for 2 topics presented</i>
	16.30	Closing	

Day/Date	:	Tuesday/13 December 2022
Time	:	14.00 - 16.30
Group	:	Material Engineering
Room	:	04
Breakout room	:	Icetia room 4
Chair	:	Nurmuntaha Agung Nugraha, S.T., M.T.
Co-chair	:	Dewi Kristiana

Paper ID	Time	Title/Author	Presenter
162	14.00 - 14.10	Microstructural Characterization and Mechanical Properties of Austempered Ductile Iron at Different Austempering Temperatures <i>Herry Oktadinata, Toto Triantoro, Isal Ardiansyah</i>	Herry Oktadinata, Universitas Jenderal Achmad Yani
104	14.10 - 14.20	The Effectiveness of Using Silane and Coastal Beach as Epoxy Resin Insulation Fillers with Silane Vinyl Agent Coupling and Polyethylene Compatibiliser for Electrical Insulators <i>Moh Toni Prasetyo, Solechan</i>	Moh Toni Prasetyo, Universitas Negeri Diponegoro (UNDIP)
	14.20 - 14.30	Discussion	<i>for 2 topics presented</i>
197	14.30 - 14.40	Preparation and Characterization of Adsorbent from Oil Palm Empty Fruit Bunches Activated with KOH <i>Medtha Utari Ananda, Kun Harismah, Akida Mulyaningtyas</i>	Medtha Utari Ananda, Universitas Muhammadiyah Surakarta (UMS)
102	14.40 - 14.50	STUDY OF FLEXURAL STRENGTH AND ITS OPTIMIZATION OF ABS - PLA MULTI-LAYERS USING FDM 3D PRINTING TECHNIQUE <i>Agus Triono, Mahros Darsin, I Made Ivan W.C.S., Mochamad Asrofi, Satriyo Handhi Prakoso, Rahmat Fajrul</i>	Agus Triono, Universitas Jember
	14.50 - 15.00	Discussion	<i>for 2 topics presented</i>
	15.00 - 15.30	Break and asar prayer	
168	15.30 - 15.40	Thermal Conductivity Analysis of Chicken Feather Panels as a Wall Material <i>Ansarullah Fharuddin, Sriwijanaka Y Hartono, Muhammad Tayeb M, Mukhthar Thahir S, Abdullah Basalamah, Gusti Hardyanti</i>	Ansarullah Fharuddin, Universitas Muslim Indonesia
117	15.40 - 15.50	A Preliminary Study: Utilization Red Brick Powder as Filler in Asphalt Mixture <i>Muhammad Abdurrohimi, Senja Rum Harnaeni, Sri Sunarjono</i>	Muhammad Abdurrohimi, Universitas Muhammadiyah Surakarta (UMS)
	15.50 - 16.00	Discussion	<i>for 2 topics presented</i>

Paper ID	Time	Title/Author	Presenter
137	16.00 - 16.10	Effect of Addition of Groundnut Shell Powder (GSP) on Compressive Strength of Concrete <i>Samsunan, a) Inseun Yuri Salena, Dewi Purnama Sari, Faris Munandar Tanjung</i>	Samsunan, Universitas Teuku Umar
176	16.10 - 16.20	Effect of Fiber Soaking Time on Alkaline Treatment to the Mechanical Strength of the Composite Reinforced Oil Palm Empty Fruit Bunches (OPEFB) Fibers <i>Agus Mujiyanto, Asslia Johar Latipah, Hery Tri Waloyo, Febry Adytama</i>	Febry Adytama, Universitas Muhammadiyah Kalimantan Timur.
	16.20 - 16.30	Discussion	<i>for 2 topics presented</i>
	16.30	Closing	

Day/Date	:	Tuesday/13 December 2022
Time	:	14.00 - 16.15
Group	:	Product Design and Management
Room	:	05
Breakout room	:	Icetia room 5
Chair	:	Arinda Soraya Putri, S.T., M.T
Co-chair	:	Agustina Sekar Sari

Paper ID	Time	Title/Author	Presenter
181	14.00 - 14.10	Service Quality Analysis on Tracking System and Management of Bus Passenger Study at PT Indo Trans Teknologi <i>Fanni Husnul Hanifa, Gita Indah Hapsari, Giva Andriana Mutiara, Dandy Marcelino, Muhammad Rizqy Alfarisi, Lisda Meisaroh, Aris Pujud Kurniawan</i>	Fanni Husnul Hanifa, Telkom University
167	14.10 - 14.20	PRODUCTION OF LIQUID SOAP FROM CASTOR OIL AND VCO WITH THE ADDITION OF SORGHUM TANNIN AND LEMONGRASS ESSENTIAL OIL AS ANTIBACTERIA <i>Megawati, Zuhriyan Ash Shiddieqy Bahlawan, Bayu Triwibowo, Lina Sahar Oktaviana, Anis Budi Utami</i>	Megawati, Universitas Negeri Semarang (UNES)
	14.20 - 14.30	Discussion	<i>for 2 topics presented</i>
136	14.30 - 14.40	Binary Particle Swarm Optimization (BPSO) Algorithm for Feature Selection in Predicting Product Repurchase Intention <i>Dimas Adrianto, Dedy Suryadi</i>	Dimas Adrianto, Universitas Katolik Parahyangan
158	14.40 - 14.50	Wheel Profile Analysis of 50 Tons Coal Wagon in South Sumatra Indonesia to Reduce Derailment Potential <i>Dwi Priyo Prayitno, Muhammad Akhsin Muflikhun</i>	Dwi Priyo Prayitno, Universitas Gadjah Mada
	14.50 - 15.00	Discussion	<i>for 2 topics presented</i>
	15.00 - 15.30	Break and asar prayer	
161	15.30 - 15.40	Driver-Passenger Matching Problem on Online Transportation Using Goal Programming <i>Andreas Handojo, Nyoman Pujawan, Budi Santosa, Moses Laksono Singgih</i>	Andreas Handojo, Petra Christian University
120	15.40 - 15.50	Development of Collapsible Motorcycle Helmet for Motorcycle Users in Indonesia <i>Lianching Christiane Nasali, Yansen Theopilus, Hanky Fransiscus</i>	Lianching Christiane Nasali, Universitas Katolik Parahyangan
	15.50 - 16.00	Discussion	<i>for 2 topics presented</i>
200	16.00 - 16.10	Dynamic Sitting for Working Position in Office: A Mini Review <i>Nadzirah Ikasari Syamsul, Ilham Bakri, Retnari Dian Mudiastuti</i>	Nadzirah Ikasari Syamsul
	16.10 - 16.15	Discussion	
	16.15	Closing	

Day/Date	:	Tuesday/13 December 2022
Time	:	14.00 - 16.30
Group	:	Product Design and Management
Room	:	06
Breakout room	:	Icetia room 6
Chair	:	Dyah Widi Astuti, S.T., M.Sc
Co-chair	:	Anisa Nur Fadhila

Paper ID	Time	Title/Author	Presenter
119	14.00 - 14.10	Estimate Activity Duration With Resource Capacity Approach In Project Production Phase, Case Study: Pump Packaging Production System <i>Anton Pane, Yusuf Latief, Leni Sagita Riantini</i>	Anton Pane, Researcher
118	14.10 - 14.20	Identification of OSH Stakeholder Engagement Management Strategy at XYZ University Area Based on the Results of Mapping for Each Quadrant <i>Alya Khairunnisa Deza, Yusuf Latief</i>	Alya Khairunnisa Deza, Universitas Indonesia
	14.20 - 14.30	Discussion	<i>for 2 topics presented</i>
171	14.30 - 14.40	Stakeholder Communication Management Planning for OHSEMS Management at an Indonesian Higher Education Institution Based on Risk with PMBOK 6th Edition Approach to Improve Communication Effectiveness and Efficiency <i>Audry Amaradyaputri Suryawan, Yusuf Latief</i>	Audry Amaradyaputri Suryawan, Universitas Indonesia
100	14.40 - 14.50	Raw Material Cost Prediction Planning and Ready Mix Product Sales Using Adaptive Linear Neural Network Method <i>R.Hidayawanti, Y. Latief, R. Nur Hayati</i>	Rossa Nur Hayati, ITPLN
	14.50 - 15.00	Discussion	<i>for 2 topics presented</i>
	15.00 - 15.30	Break and asar prayer	
131	15.30 - 15.40	Design of Magnetic Separator Machine for Lithium-Ion Batteries Enumeration <i>Muhammad Randi Nur Aditya, Muslim Mahardika, Budi Arifvianto, Indra Perdana, Eka Firmansyah, Muhammad Akhsin Muflikhun</i>	Muhammad Randi Nur Aditya, Universitas Gadjah Mada (UGM)
180	15.40 - 15.50	Green Architecture and Architect: From Theory to Professional Built Environment <i>Ronim Azizah, Qomarun, Hasyim Asy'ari</i>	Ronim Azizah, Universitas Muhammadiyah Surakarta (UMS)
	15.50 - 16.00	Discussion	<i>for 2 topics presented</i>
191	16.00 - 16.10	Road Damage Management During Covid-19 Pandemic Using General Allocation Funding (Case Study Of Kabupaten Karanganyar) <i>Angga Darmawan, Sri Sunarjono, Senja Rum Harnaeni, Zilhardi Idris</i>	Senja Rum Harnaeni, Universitas Muhammadiyah Surakarta (UMS)
109	16.10 - 16.20	Spinner Machine for Walasoji Shredded Fish: Designing and Manufacturing <i>Muhammad Arsyad, Rusdi Nur, Hasyim</i>	Muhammad Arsyad, Politeknik Negeri Ujung Pandang
	16.20 - 16.30	Discussion	<i>for 2 topics presented</i>
	16.30	Closing	

Day/Date	:	Tuesday/13 December 2022
Time	:	14.00 - 16.45
Group	:	Sustainable Built Environment & Sustainable Infrastructure
Room	:	07
Breakout room	:	Icetia room 7
Chair	:	Wisnu Setiawan, S.T., M.Arch., Ph.D
Co-chair	:	Naufal Ichsan S S

Paper ID	Time	Title/Author	Presenter
172	14.00 - 14.10	Rewilding Design: Architecture by Nature <i>Aulia Rahman, Kristanti Dewi Paramita, Paramita Atmodiwirjo</i>	Aulia Rahman, Universitas Indonesia
198	14.10 - 14.20	Multifunctionality planning of open space facility in a rural area <i>Fadhilla Tri Nugrahaini, Ronim Azizah, Muhtadi, Iffat Rifdah Rosyid</i>	Fadhilla Tri Nugrahaini, Universitas Muhammadiyah Surakarta (UMS)
	14.20 - 14.30	Discussion	<i>for 2 topics presented</i>
179	14.30 - 14.40	MAPAN House: from Prototype to Urban Settlement Implementation <i>Qomarun, Hasyim Asy'ari, Aan Sofyan</i>	Qomarun, Universitas Muhammadiyah Surakarta (UMS)
166	14.40 - 14.50	Toward Sustainable Built Environment: A Gender-Eco Friendly Master Plan of a Sinking Village for Climate Change Adaptation <i>Rr. M. I. Retno Susilorini, Iskhaq Iskandar, Budi Santosa</i>	Rr. M. I. Retno Susilorini, Pancasakti Tegal University
	14.50 - 15.00	Discussion	<i>for 2 topics presented</i>
	15.00 - 15.30	Break and asar prayer	
140	15.30 - 15.40	Study of Bioclimatic Architecture Methods in the Traditional House of Banjar Gajah Baliku <i>Farah Hafizha, Sarifah Nur Isra Jairina</i>	Farah Hafizha, Universitas Nahdlatul Ulama Kalimantan Selatan
150	15.40 - 15.50	The COVID-19 Pandemic as a Force Majeure; Dual Perspective Between Islamic Development Bank's Guideline and Peraturan Presiden No. 16 Tahun 2018 <i>Rusfina Widayati, Hikmah Mayasari, Andi Prasetyo Wibowo, Astri Anindya Sari, Rendy Perdana Khidmat</i>	Rusfina Widayati, Universitas Mulawarman
	15.50 - 16.00	Discussion	<i>for 2 topics presented</i>

Paper ID	Time	Title/Author	Presenter
196	16.00 - 16.10	Reinventing Cultural Tourism of Kemlayan : Broaden Meaning, Increase Sustainability <i>Dyah Widi Astuti, Kussudyarsana</i>	Dyah Widi Astuti, Universitas Muhammadiyah Surakarta (UMS)
201	16.10 - 16.20	How Information And Communication Technology (ICT) Impact To Household's Travel Patterns during Pandemic COVID-19 – A Preliminary Study <i>Rozaini Ramli, Dimas B. E. Dharmowijoyo, Suria Haron, Asrul Muhaimin Abdul Majid</i>	Rozaini Ramli, Universiti Teknologi Petronas, Malaysia
	16.20- 16.30	Discussion	<i>for 2 topics presented</i>
156	16.30 - 16.40	A STUDY OF CATEGORIES AND FORMING ELEMENTS OF GREEN TOURISM VILLAGE BASED ON GREEN TOURISM <i>Redi Sigit Febrianto, Ghoustanjiwani Adi Putra, Nanik Astuti Rahman, Masrurotul Ajiza, Sri Winarni</i>	Redi Sigit Febrianto, ITN Malang
	16.40 - 16.45	Discussion	
	16.45	Closing	

Day/Date	:	Tuesday/13 December 2022
Time	:	14.00 - 16.45
Group	:	Sustainable Built Environment & Sustainable Infrastructure
Room	:	08
Breakout room	:	Icetia room 8
Chair	:	Purwanti Sri Pudyastuti, S.T., M.Sc.
Co-chair	:	Haqiqi Hadziq Fikri

Paper ID	Time	Title/Author	Presenter
107	14.00 - 14.10	Numerical Analysis of High-Strength Precast Concrete Column with Grouted Sleeve Connection <i>Harun Alrasyid, Rizky T Amalia</i>	Harun Alrasyid, Institut Teknologi Sepuluh Nopember (ITS)
157	14.10 - 14.20	Utilization Of Cast Plastic Waste For Paving Block With Sand Mixture <i>Abdul Rochman, Nurul Hidayati, Muhamad Nur Sahid, Muhamad Ujjianto</i>	Abdul Rochman, Universitas Muhammadiyah Surakarta (UMS)
	14.20 - 14.30	Discussion	<i>for 2 topics presented</i>
159	14.30 - 14.40	Improvement of Pavement Condition Identification Method Based on Smartphone LiDAR <i>Yusroniya Eka Putri Rachman Waliulu, Priyo Suprobo, Tri Joko Wahyu Adi</i>	Yusroniya Eka Putri Rachman Waliulu, Institut Teknologi Sepuluh Nopember (ITS)
132	14.40 - 14.50	Performance Characteristics of a Submerged Semicircular Breakwater Exposed to Regular Waves: An Experimental Study <i>Faris Ali Hamood Al-Towayti, Teh Hee Min</i>	Faris Ali Hamood Al-Towayti, Universiti Teknologi PETRONAS (UTP), Malaysia
	14.50 - 15.00	Discussion	<i>for 2 topics presented</i>
	15.00 - 15.30	Break and asar prayer	
204	15.30 - 15.40	Evaluating agricultural wastes performance in treating stormwater of bioretention series <i>Ali Wafaa, Takaijudin Husna</i>	Ali Wafaa, Universiti Teknologi PETRONAS (UTP), Malaysia
134	15.40 - 15.50	Development of a Sustainable Technology in Reducing Reservoir Evaporation <i>Kirthana Gunasekaran, Teh Hee Min, Purwanti Sri Pudyastuti</i>	Kirthana Gunasekaran, Universiti Teknologi PETRONAS (UTP), Malaysia
	15.50 - 16.00	Discussion	<i>for 2 topics presented</i>

Paper ID	Time	Title/Author	Presenter
184	16.00 - 16.10	The Analysis of Project Delays in Pile Foundation Work Study Case : Batam Island Steven Shui, Andri Irfan Rifai, Mulia Pamadi	Steven Shui, Universitas Internasional Batam
101	16.10 - 16.20	Case Study of Using Geotextiles Reinforced Structure to Repair Mountain Road Landslide in Toraja-Indonesia <i>Andri Irfan Rifai, Surya Kencana Bhakti, Susanty Handayani</i>	Andri Irfan Rifai, Universitas Internasional Batam
	16.20 - 16.30	Discussion	<i>for 2 topics presented</i>
123	16.30 - 16.40	Reuse of Construction Waste For Sustainable Development <i>Dadang Iskandar, Eri Prawati, Ida Hadijah, Yusuf Amran, M. Nurkholid</i>	M. Nurkholid, Universitas Muhammadiyah Metro
	16.40 - 16.45	Discussion	
	16.45	Closing	

Day/Date	:	Tuesday/13 December 2022
Time	:	14.00 - 16.45
Group	:	Sustainable Built Environment & Sustainable Infrastructure
Room	:	09
Breakout room	:	Icetia room 9
Chair	:	Anto Budi Listyawan, S.T., M.Sc.
Co-chair	:	Tri Nita H

Paper ID	Time	Title/Author	Presenter
145	14.00 - 14.10	GEOTOURISM POTENTIAL STUDY BASED ON ENVIRONMENTAL SUSTAINABILITY IN BERAMBAI, SAMARINDA CITY, EAST KALIMANTAN <i>Fajar Alam, Musriany Abdul Muis, Triyono Sudarmadji, Wahyuni Hartati, Faried Rahmany, Wisnu Ismunandar</i>	Fajar Alam, Muhammadiyah of East Borneo University
112	14.10 - 14.20	Design and Construction of Anchor Block Pedestrian Cable-Stayed Bridge on Celebes Island <i>Andri Irfan Rifai, Muhammad Rizal, Ferial</i>	Andri Irfan Rifai, Universitas Internasional Batam
	14.20 - 14.30	Discussion	<i>for 2 topics presented</i>
165	14.30 - 14.40	Impact of Toll Road on Performance of Road Network: Case Study of Sragen Regency <i>Syafi'i, Dewi Handayani, AMH Mahmudah, Tuti Agustin, Widi Hartono, Venesa Mega Emilia</i>	Syafi'i, Universitas Negeri Sebelas Maret (UNS)
183	14.40 - 14.50	Evaluation of Schedule Deviation on Bore Pile Foundation With FTA: Case Study of Opus Apartment Project in Batam <i>Melvin, Andri Irfan Rifai, Usmanul Hayadi Umar</i>	Melvin, Universitas Internasional Batam
	14.50 - 15.00	Discussion	<i>for 2 topics presented</i>
	15.00 - 15.30	Break and asar prayer	
149	15.30 - 15.40	Utilization of Silica Sand and Gravel from the Remaining Mining of Indarung Limestone as Aggregate Substances for Rigid Pavement <i>Etri Suhelmidawati, Fahmiza Yufajri, Muhammad Ikhsan, Gusriyaldi, Zulfira Mirani</i>	Fahmiza Yufajri, Politeknik Negeri Padang
121	15.40 - 15.50	The Integration of Exhaust Fan and Wheel Stopper to Reduce Indoor Air Pollution Inside the Enclosed Parking Garage <i>Pramadhony, Kaprawi Sahim, Dewi Puspitasari, Muhammad Said, Sugianto</i>	Pramadhony, Universitas Sriwijaya
	15.50 - 16.00	Discussion	<i>for 2 topics presented</i>

Paper ID	Time	Title/Author	Presenter
126	16.00 - 16.10	Economic Feasibility Study on the construction of the Bubon Port Pier, West Aceh Regency <i>Zakia, Maylis Safriani, Inseun Yuri Salena</i>	Inseun Yuri Salena, Teuku Umar University
190	16.10 - 16.20	Comparison of Road Improvement and Maintenance Costs Before and During the Covid-19 Pandemic (Case Study in Karanganyar Regency, Central Java) <i>Triyanto, Sri Sunarjono, Zihardi Idris, Nurul Hidayati</i>	Triyanto, Universitas Muhammadiyah Surakarta (UMS)
	16.20 - 16.30	Discussion	<i>for 2 topics presented</i>
122	16.30 - 16.40	Risk factors and Value of Risk Factors on Toll Road Investment Projects in Indonesia <i>Christo Februento, Leni Sagita Riantini, Yusuf Latief, Gilang Ardi</i>	Christo Februento, Universitas Indonesia
	16.40 - 16.45	Discussion	
	16.45	Closing	

Day/Date	:	Tuesday/13 December 2022
Time	:	14.00 - 16.45
Group	:	Sustainable Industrial Process & System Optimization
Room	:	10
Breakout room	:	Icetia room 10
Chair	:	Eko Setiawan, S.T., M. T., Ph.D.
Co-chair	:	Windy Setya Rini

Paper ID	Time	Title/Author	Presenter
173	14.00 - 14.10	Multi-Objective Optimization of Turning Process Steel SKD 11 Using BPNN-Artificial Bee Colony (ABC) Method <i>Mazwan, M. Khoirul Effendi, Bobby O. P. Soepangkat, Satrio Darma Utama, Ridhani Anita Fajardini</i>	Mazwan, Institut Teknologi Sepuluh Nopember (ITS)
175	14.10 - 14.20	Multi-objective optimization using BPNN-PSO in the face milling process of AISI 1045 <i>Satrio Darma Utama, Arif Wahjudi, Mohammad Khoirul Effendi, Bobby O. P. Soepangkat, Mazwan, Ridhani Anita Fajardini</i>	Satrio darma utama, Institut Teknologi Sepuluh Nopember (ITS)
	14.20 - 14.30	Discussion	<i>for 2 topics presented</i>
203	14.30 - 14.40	Risk-Based Inspection in Offshore Structures: A Systematic Approach <i>Abdul Hannan Qureshi, Wesam Salah Alaloul, Muhammad Ali Musarat, Arianta</i>	Abdul Hannan Qureshi, Universiti Teknologi PETRONAS, Malaysia
174	14.40 - 14.50	Multi-objective Optimization of AISI 1045 on Drilling Process based on Hybrid BPNN and Firefly Algorithm <i>Ridhani Anita Fajardini, Mohammad Khoirul Effendi, Bobby O. P. Soepangkat, Mazwan, Satrio Darma Utama</i>	Ridhani Anita Fajardini, Institut Teknologi Sepuluh Nopember (ITS)
	14.50 - 15.00	Discussion	<i>for 2 topics presented</i>
	15.00 - 15.30	Break and asar prayer	
170	15.30 - 15.40	Mitigation and Improvement of Distorted Distribution System by Hybrid Passive Filter <i>Agus Ulinuha, Nouraldeen A A Mahmoud</i>	Agus Ulinuha, Universitas Muhammadiyah Surakarta (UMS)
129	15.40 - 15.50	ENHANCE QUALITY BOILER UTILITIES AT RFCC PERTAMINA RU IV CILACAP USE AMINE BASE AND POLYMER BASE AS CHEMICAL BOILER INTERNAL TREATMENT <i>Muhammad Fattah Romdhoni, Yudhiantono Athidira, Adnan Gigih Wibowo</i>	Muhammad Fattah Romdhoni, Pertamina
	15.50 - 16.00	Discussion	<i>for 2 topics presented</i>

Paper ID	Time	Title/Author	Presenter
128	16.00 - 16.10	Quality Improvement In The Molding Machine Process With Six Sigma Approach And Digitalization In The Automotive Component Industry	Yaman Parid, Mercubuana university
		<i>Yaman Parid, Hernadewita, Hendra, Teuku Mirwan Saputra</i>	
194	16.10 - 16.20	Effect of Starter Concentration and Length of Incubation on Protein and Fat Levels of Yogurt with Palm Sugar	Herry Purnama, Universitas Muhammadiyah Surakarta (UMS)
		<i>Herry Purnama, Burhanudin Yahya</i>	
	16.20 - 16.30	Discussion	<i>for 2 topics presented</i>
187	16.30 - 16.40	POLYSULPHONE (PSf)-TITANIUM DIOXIDE (TiO ₂) MEMBRANES FOR IRON (Fe) REMOVAL	Agustina Indra Ardhiyanti, Universitas Muhammadiyah Surakarta (UMS)
		<i>Agustina Indra Ardhiyanti, Anisa Ur Rahmah, Eni Budiayati</i>	
	16.40 - 16.45	Discussion	
	16.45	Closing	

Day/Date	:	Tuesday/13 December 2022
Time	:	14.00 - 16.00
Group	:	Water and Infrastructure Management
Room	:	11
Breakout room	:	Icetia room 11
Chair	:	Dr. Eni Budiwati, S.T., M.T.
Co-chair	:	Aulia Eko Purwanti

Paper ID	Time	Title/Author	Presenter
193	14.00 - 14.10	Mechanism for Proposing Kabupaten Road Damage Improvement Program Using KRISNA Application <i>Arif Bayu Priyambodo, Sri Sunarjono, Senja Rum Harnaeni, Zilhardi Idris</i>	Arif Bayu Priyambodo; Universitas Muhammadiyah Surakarta (UMS)
143	14.10 - 14.20	Analysis of Rob Flood Management in the Coastal Sand Coast Region, West Aceh Regency <i>Dian Febrianti, Zakia, Meylis Safriani, Zaki Husein</i>	Dian Febrianti, Universitas Teuku Umar
	14.20 - 14.30	Discussion	<i>for 2 topics presented</i>
177	14.30 - 14.40	Risk-based Evaluation for The Financial Model of Trans Sumatra Toll Road Infrastructure Development Project <i>Diva Annisa A, Leni Sagita Riantini, Yusuf Latief, Gilang Ardi</i>	Diva Annisa A, Universitas Indonesia
154	14.40 - 14.50	Development of Risk-Based Audit Method Standard For Stadium Project using Design and Build Contract to Minimize Dispute : Owner's Perspective <i>Muhammad Kukuh Prawira Masruri, Anggoro Putro, Yusuf Latief</i>	Muhammad Kukuh Prawira Masruri, Universitas Indonesia
	14.50 - 15.00	Discussion	<i>for 2 topics presented</i>
	15.00 - 15.30	Break and asar prayer	
202	15.30 - 15.40	SYNTHESIS OF POLYAMIDE-AI2O3 NANOCOMPOSITE MEMBRANES USING THE NANOFILTRATION PHASE SEPARATION METHOD <i>Malikhatul Hidayah, Muhammad Mujiburohman, Nur Hidayati</i>	Malikhatul Hidayah, Universitas Muhammadiyah Surakarta (UMS)
	15.50 - 16.00	Discussion	
	16.00	Closing	

ROOM FOR PANEL SESSIONS PRESENTATION

IX ICETIA AND RAPI XXI

SURAKARTA, December 13th 2022

Dear Presenters, there are minor adjustment in the conference link. We will have Breakout Rooms from the Main Room (Keynote Sessions) instead of single Link, as described by the Table Below:

No.	Group/Scope	Previous Room (Single link)	New: Breakout Room Main room Link: https://s.id/KeynoteSession- ICETIARAPI2022
9th ICETIA			
1	01/Green Computing and IoT	Link Zoom ICETIA-ROOM 01	Icetia room 1
2	02/Green Energy	Link ZOOM ICETIA-ROOM 02	Icetia room 2
3	03/Material Engineering	Link Zoom ICETIA-ROOM 03	Icetia room 3
4	04/Material Engineering	Link Zoom ICETIA-ROOM 04	Icetia room 4
5	05/Product design and Management	Link Zoom ICETIA-ROOM 05	Icetia room 5
6	06/Product design and Management	Link Zoom ICETIA-ROOM 06	Icetia room 6
7	07/Sustainable Built Environment & Sustainable Infrastructure	Link Zoom ICETIA-ROOM 07	Icetia room 7
8	08/Sustainable Built Environment & Sustainable Infrastructure	Link Zoom ICETIA-ROOM 08	Icetia room 8
9	09/Sustainable Built Environment & Sustainable Infrastructure	Link Zoom ICETIA-ROOM 09	Icetia room 9
10	10/Sustainable Industrial Process & System Optimization	Link Zoom ICETIA-ROOM 10	Icetia room 10
11	11/Water and Infrastructure Management	Link Zoom ICETIA-ROOM 11	Icetia room 11
RAPI XXI			
1	RAPI 01	Link Zoom RAPI-ROOM 21	Rapi room 1
2	RAPI 02	Link Zoom RAPI-ROOM 22	Rapi room 2
3	RAPI 03	Link Zoom RAPI-ROOM 23	Rapi room 3
4	RAPI 04	Link Zoom RAPI-ROOM 24	Rapi room 4