

## 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
<b>Tuesday, 13 Dec 2022: The conferences</b>		
07.30	Open zoom meeting	<a href="https://s.id/KeynoteSession-ICETIARAPI2022">https://s.id/KeynoteSession-ICETIARAPI2022</a> 1. Basir Wismoyo Jati, S.Kom 2. Muhammad Lutfi Arsyad, S.Kom
<b>08.00 - 08.50 Opening ceremony</b>		
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	
<b>09.00 - 10.45 Panel session 01</b>		
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	
<b>10.45 - 14.00 Panel session 02</b>		
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	

<b>Time</b>	<b>Activities</b>	<b>Notes</b>
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
<b>14.00 - 15.00</b>	<b>Parallel session 01</b>	
15.00 - 15.30	Break and asar prayer	
<b>15.30 - 17.00</b>	<b>Parallel session 02</b>	
	Closing day 01	
<b>Wednesday, 14 Dec 2022: Short course: Introduction to Safety Software: Effects and Riskcurves</b>		
09.00 - 12.00	Short course	<a href="https://s.id/PelatihanOnline-EffectsRiskcurves">https://s.id/PelatihanOnline-EffectsRiskcurves</a>
	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	<b>Discussion</b>	<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	<b>Discussion</b>	<i>for 2 topics presented</i>
	15.00 - 15.30	<b>Break and asar prayer</b>	
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	<b>Discussion</b>	<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	<b>Discussion</b>	<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	<b>Discussion</b>	<i>for 2 topics presented</i>
	17.00	<b>Closing</b>	

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	<b>Discussion</b>	<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	<b>Discussion</b>	<i>for 2 topics presented</i>
	15.00 - 15.30	<b>Break and asar prayer</b>	
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	<b>Discussion</b>	<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	<b>Discussion</b>	
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	<b>Discussion</b>	<i>for 2 topics presented</i>
	17.00	<b>Closing</b>	

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	<b>Discussion</b>	<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	<b>Discussion</b>	<i>for 2 topics presented</i>
	15.00 - 15.30	<b>Break and asar prayer</b>	
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	<b>Discussion</b>	<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	<b>Discussion</b>	<i>for 2 topics presented</i>
	16.30	<b>Closing</b>	

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	<b>Discussion</b>	<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	<b>Discussion</b>	<i>for 2 topics presented</i>
	15.00 - 15.30	<b>Break and asar prayer</b>	
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	<b>Discussion</b>	<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	<b>Discussion</b>	<i>for 2 topics presented</i>
	16.30	<b>Closing</b>	

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	<b>Discussion</b>	<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	<b>Discussion</b>	<i>for 2 topics presented</i>
	15.00 - 15.30	<b>Break and asar prayer</b>	
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	<b>Discussion</b>	<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	<b>Discussion</b>	
	16.15	<b>Closing</b>	

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	<b>Discussion</b>	<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	<b>Discussion</b>	<i>for 2 topics presented</i>
	15.00 - 15.30	<b>Break and asar prayer</b>	
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	<b>Discussion</b>	<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	<b>Discussion</b>	<i>for 2 topics presented</i>
	16.30	<b>Closing</b>	

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	<b>Discussion</b>	<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	<b>Discussion</b>	<i>for 2 topics presented</i>
	15.00 - 15.30	<b>Break and asar prayer</b>	
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	<b>Discussion</b>	<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	<b>Discussion</b>	<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	<b>Discussion</b>	
	16.45	<b>Closing</b>	

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	<b>Discussion</b>	<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	<b>Discussion</b>	<i>for 2 topics presented</i>
	15.00 - 15.30	<b>Break and asar prayer</b>	
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	<b>Discussion</b>	<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	<b>Discussion</b>	<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	<b>Discussion</b>	
	16.45	<b>Closing</b>	

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	<b>Discussion</b>	<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	<b>Discussion</b>	<i>for 2 topics presented</i>
	15.00 - 15.30	<b>Break and asar prayer</b>	
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	<b>Discussion</b>	<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	<b>Discussion</b>	<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	<b>Discussion</b>	
	16.45	<b>Closing</b>	

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	<b>Discussion</b>	<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	<b>Discussion</b>	<i>for 2 topics presented</i>
	15.00 - 15.30	<b>Break and asar prayer</b>	
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	<b>Discussion</b>	<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	<b>Discussion</b>	<i>for 2 topics presented</i>
187	16.30 - 16.40	POLYSULPHONE (PSf)-TITANIUM DIOXIDE (TiO <sub>2</sub> ) 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	<b>Discussion</b>	
	16.45	<b>Closing</b>	

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	<b>Discussion</b>	<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	<b>Discussion</b>	<i>for 2 topics presented</i>
	15.00 - 15.30	<b>Break and asar prayer</b>	
202	15.30 - 15.40	SYNTHESIS OF POLYAMIDE- $Al_2O_3$ 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	<b>Discussion</b>	
	16.00	<b>Closing</b>	