



**UMY** Electrical  
Engineering



# UM 2023 CONFERENCE PROCEEDINGS

THE 3RD INTERNATIONAL CONFERENCE ON  
ELECTRONIC AND ELECTRICAL ENGINEERING  
AND INTELLIGENT SYSTEM (ICE3IS 2023)

"RESPONSIBLE TECHNOLOGY FOR SUSTAINABLE HUMANITY"

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Yogyakarta, Indonesia 9-10 August 2023

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## **Welcome Message from Conference Chair**



The 3<sup>rd</sup> International Conference on Electronic and Electrical Engineering and Intelligent System (ICE3IS 2023) took place on August 9-10, 2023 at Universitas Muhammadiyah Yogyakarta in Bantul, Indonesia. The objective of ICE3IS is to bring together academics and industry professionals in fields related to Electronic and Electrical Engineering and Intelligent Systems. ICE3IS aims to provide a wide range of current research in the fields of theoretical and applied Electronic, Electrical, and Intelligent System, as well as to discuss their development.

This volume contains 101 selected papers (from an original total of 161) that were presented orally at the conference. We have presenters from Malaysia, India, China, Iraq, Indonesia, Bangladesh, Lebanon, Thailand, South Africa, Japan, Australia, the United Kingdom, Prague, Taiwan, the Philippines, and the United States. The papers are accepted following peer review by Technical Committee members and international reviewers.

Artificial Intelligence; Electronic, Electrical & Power Engineering; Information Systems and Embedded System; Robotics and Mechatronics; Signal Processing and Computer Vision; Telecommunication, Computer Network and Wireless Communication are among the topics covered in the papers. It is also highlighted by our three keynote speakers sharing their research with us. They are Prof. Dr. Hsing-chung Chen (IEEE SM) from Asia University, Taiwan, Prof. Dr. Christian Blum (Spanish National Research Council) from Universitat Autnoma de Barcelona, Spain, and Assoc. Prof. Dr. Khoirul Anwar, S.T., M.Eng.

The Steering Committee, Advisory Board, Conference Chairs, Program Chairs, Technical Program Committee Members, and international reviewers have our sincere appreciation. We are able to create a high-quality program due to their expert knowledge and professional advice. Special appreciation is extended to the three keynote speakers and all the authors for contributing their most recent research to the conference. We hope the conference attendees have a wonderful time and enjoy Yogyakarta, Indonesia. We are confident that the participants will have fruitful discussions and appreciate the opportunity to form future partnerships.

ICE3IS 2023 conference chair,  
Dr. Nur Hayati, M.T.  
Universitas Muhammadiyah Yogyakarta, Bantul, Indonesia  
August 7, 2023

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## KEYNOTE SPEAKERS



**Prof. Dr. Christian Blum**

**Spanish National  
Research Council  
(CSIC) Campus of The  
UAB, Spain**

Professor Christian Blum is from Germany and is a well-respected figure in the field of Hybrid Metaheuristics. He obtained his DEA and Ph.D. in 2002 and 2004, respectively, from the renowned Universite Libre de Bruxelles in Brussels, Belgium, establishing the foundation for his impressive career. Following his academic achievements, he served as an Associate Professor at the Universitat Politecnica de Catalunya in Barcelona, Spain, where his contributions flourished until 2012. From 2012 to 2016, he held the notable position of an Ikerbasque Research Professor at the University of the Basque Country in San Sebastian, Spain, further enriching his scholarly accomplishments.

Since 2017, Professor Blum has been actively involved in groundbreaking research as part of the Artificial Intelligence Research Institute of the Spanish National Research Council, based in the city of Barcelona, Spain. His impact on the scientific community is evident through the publication of more than 200 articles in prestigious Scopus-indexed journals and proceedings, showcasing his unwavering dedication to advancing knowledge. Beyond his academic achievements, Professor Blum has a broad perspective, as he fluently speaks five languages: English, German, French, Spanish, and Catalan. This exceptional linguistic proficiency fosters seamless international collaboration and cultural exchange.



**Prof. Dr. Hsing-Chung  
Chen**

**Asia University, Taiwan**

Prof. Hsing-Chung Chen received the Ph.D. degree in Electronic Engineering from National Chung Cheng University, Taiwan, in 2007. Currently, he is Distinguished Professor with the Department of Computer Science and Information Engineering, Asia University, Taiwan. Since May 2014–present, he has also been the Research Consultant of Dept. of Medical Research, China Medical University Hospital, China Medical University, Taichung City, Taiwan. In addition, since Feb 2017–present, he has also been the Permanent Council Member of Taiwan Domain Names Association (Taiwan DNA), Taiwan. In addition, he is the IEEE Senior member. He had been listed in the “World Ranking of Top 2% Scientists” created by experts at Stanford University, USA. (Published: 19 October 2021). His research interests include Information and Communication Security, Cyberspace Security, Blockchain Network Security, Internet of Things Application Engineering and Security, Mobile and Wireless Networks Protocols, Medical and Bio-information Signal Image Processing, Artificial Intelligence and Soft Computing, and Applied Cryptography.



**Assoc. Prof. Dr. Khoirul  
Anwar, S.T., M.Eng.**

**Telkom University,  
Indonesia**

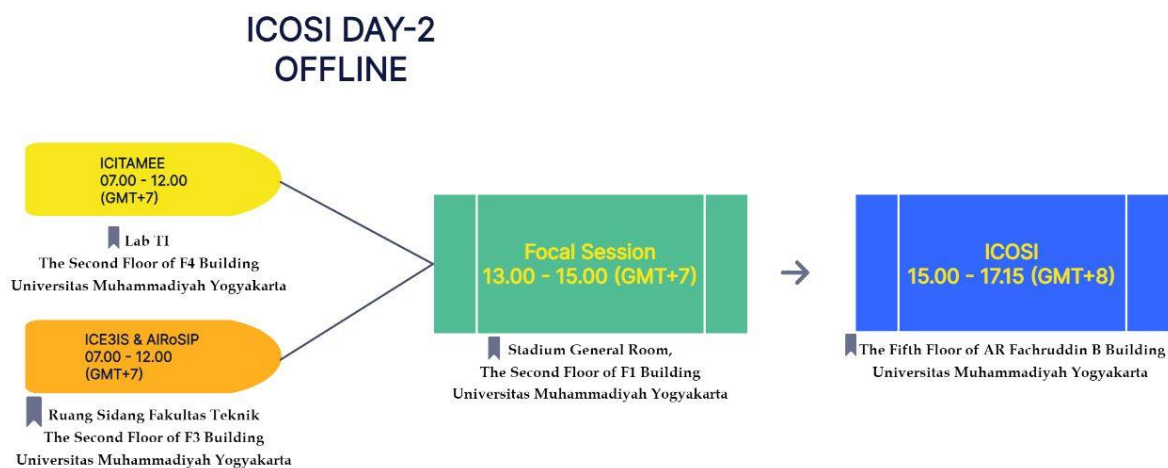
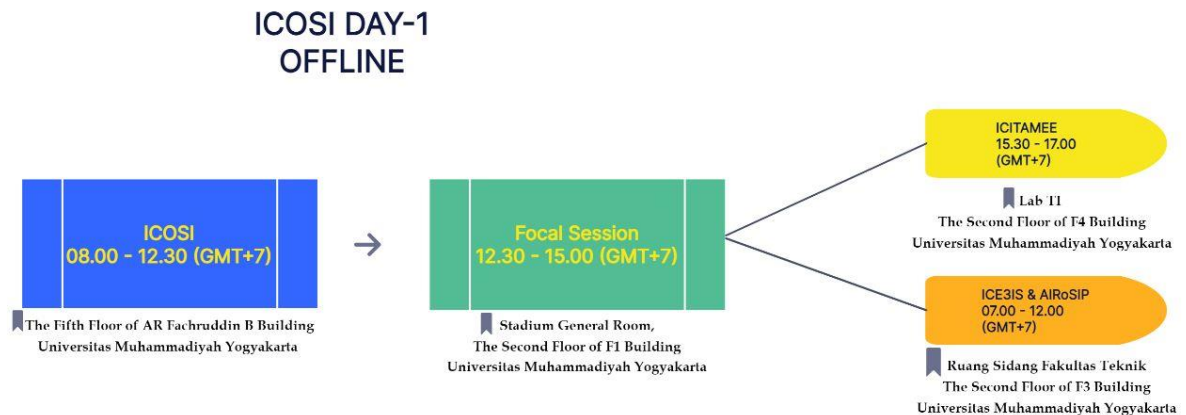
Dr. Anwar received his Master and Doctoral degrees from NAIST's Graduate School of Information Science. He was a JAIST assistant professor in September 2008. Since September 2016, Dr. Anwar has been an associate professor in the School of electrical engineering at Telkom University in Bandung, Indonesia, and the director of the Center for Advanced Intelligent Communications (AICOMS) (formerly the Center for Advanced Wireless Technologies (AdWiTech) 2016–2020), and a Ministry of Higher Education-supported Indonesia University Center of Excellence since July 2020. AICOMS won the 2021 Rector Awards for best research center in research grant achievement.

Dr. Anwar's technique is adopted by the international telecommunication union (ITU), ITU-R standard No.~ITU-R S.2173 \textit{"Multi-carrier-based transmission techniques"} also in ITU-R S.1878 \textit{"Multi-carrier-based Transmission Techniques for Satellite Systems"}. Dr. Anwar is the chairman of W.G. Radio and Technologies of Indonesia 5G Forum (i5GF). Also, the chairman of the Working Group of Service and Applications (WG-S\&A) in Asia Pacific Telecommunity Wireless Group (AWG), 2016–2tly, Dr. Anwar is the Vice-Chairman of Asia Pacific Telecommunity Wireless Group (AWG), 2019-2025.

He studies error correction coding, iterative decoding, super-dense network coding, network information theory, wireless signal processing, molecular communications, quantum communications, and error corrections. He reviews central wireless communications, coding theory, and signal processing journals and conferences. Dr. Anwar is a senior member of IEEE (Information Theory society, Communications society).

## PROGRAM EVENT

### A. Event Venue for Offline Participants



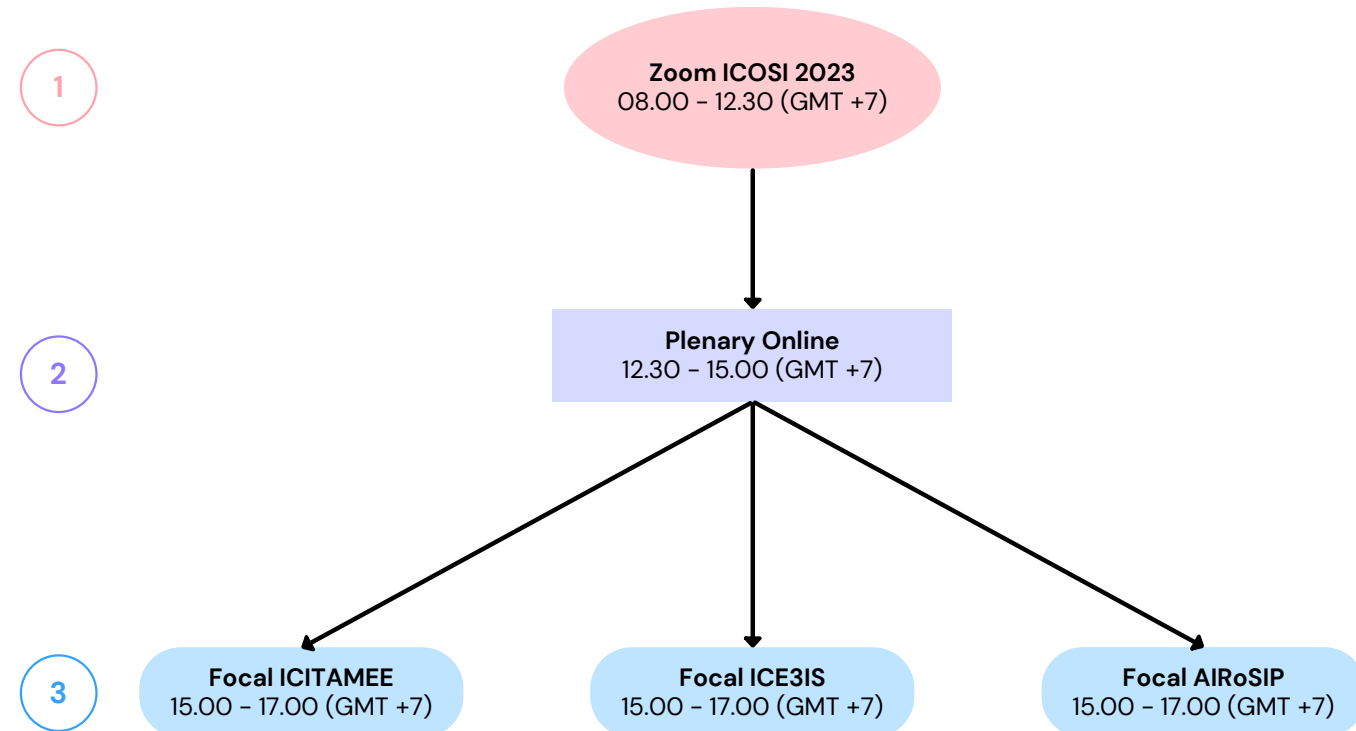
### B. Event Link for Online Participants

(See the next page)

### C. WhatsApp Group for all author

- WhatsApp Group for Offline Participants:  
<https://chat.whatsapp.com/LdLS60VEDjI0CtpTjY6pyl>
- WhatsApp Group for All author of ICE3IS 2023:  
<https://chat.whatsapp.com/IPWQggNN88rAgalfVedvKG>

# ICOSI Online Day-1

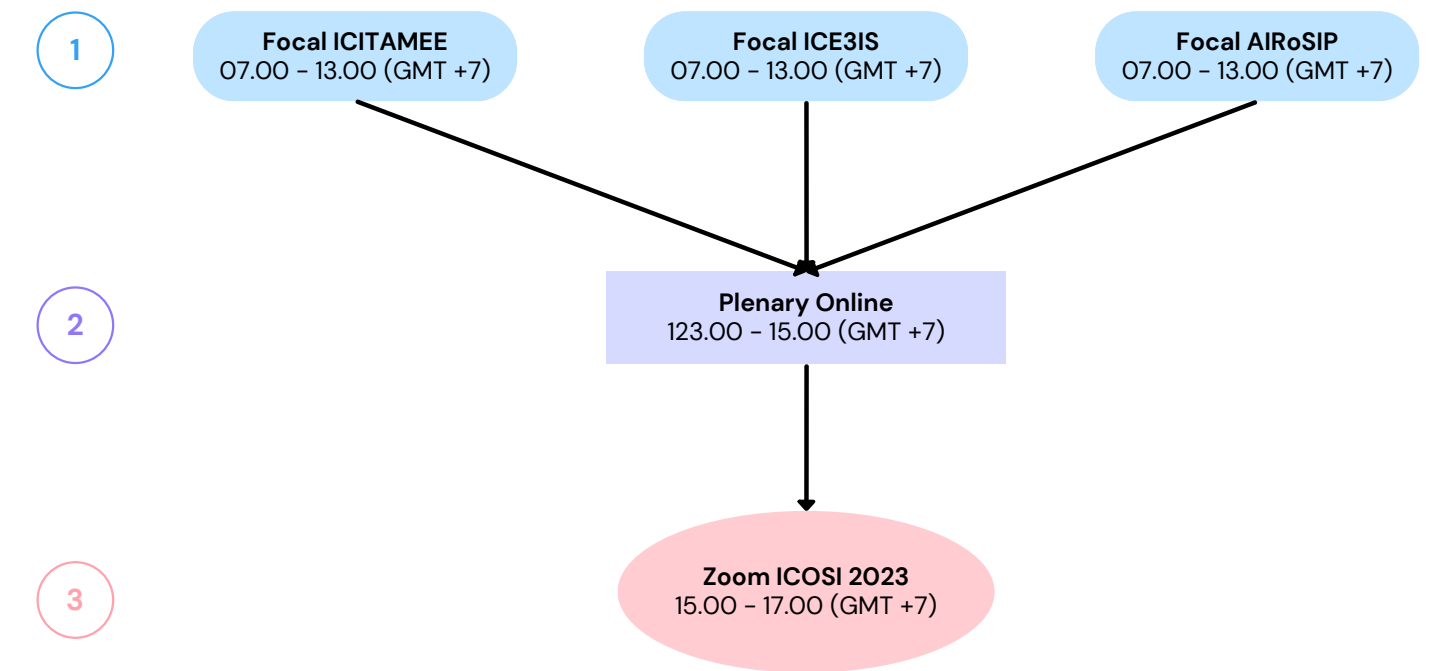


## ZOOM'S DETAIL

Here are the links for every step and Session  
(Please refer to each steps' color code)

MEETING LINK	DETAIL
<a href="https://us02web.zoom.us/j/82382865043?pwd=NTE4SWMvTU1yROhTSGdCQzArLOd1dzO9">https://us02web.zoom.us/j/82382865043?pwd=NTE4SWMvTU1yROhTSGdCQzArLOd1dzO9</a>	Meeting ID: 823 8286 5043 Passcode: 2023
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<b>ICITAMEE:</b> <a href="https://telkonsel.zoom.us/j/91369407633?pwd=YWxlZ3lhdIRqSTJEZ2t6emZDeGZZZzO9">https://telkonsel.zoom.us/j/91369407633?pwd=YWxlZ3lhdIRqSTJEZ2t6emZDeGZZZzO9</a>	Meeting ID: 913 6940 7633 Passcode: 986266
<b>ICE3IS:</b> <a href="https://telkonsel.zoom.us/j/8590480578?pwd=RVpBNTNTODIDRFdZRVl3dU9MemxodzO9">https://telkonsel.zoom.us/j/8590480578?pwd=RVpBNTNTODIDRFdZRVl3dU9MemxodzO9</a>	Meeting ID: 859 048 0578 Passcode: ice3is2023
<b>AIRoSIP:</b> <a href="https://telkonsel.zoom.us/j/96039808420?pwd=TU5sbDhaWDAycXJLRkRFWGtOOWhXQT09">https://telkonsel.zoom.us/j/96039808420?pwd=TU5sbDhaWDAycXJLRkRFWGtOOWhXQT09</a>	Meeting ID: 960 3980 8420 Passcode: 492365

# ICOSI Online Day-2



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<b>ICE3IS:</b> <a href="https://telkonsel.zoom.us/j/8590480578?pwd=RVpBNTNTODIDRFdZRVl3dU9MemxodzO9">https://telkonsel.zoom.us/j/8590480578?pwd=RVpBNTNTODIDRFdZRVl3dU9MemxodzO9</a>	Meeting ID: 859 048 0578 Passcode: ice3is2023
<b>AIRoSIP:</b> <a href="https://telkonsel.zoom.us/j/96039808420?pwd=TU5sbDhaWDAycXJLRkRFWGtOOWhXQT09">https://telkonsel.zoom.us/j/96039808420?pwd=TU5sbDhaWDAycXJLRkRFWGtOOWhXQT09</a>	Meeting ID: 960 3980 8420 Passcode: 492365
<a href="https://telkonsel.zoom.us/j/96039808420?pwd=TU5sbDhaWDAycXJLRkRFWGtOOWhXQT09">https://telkonsel.zoom.us/j/96039808420?pwd=TU5sbDhaWDAycXJLRkRFWGtOOWhXQT09</a>	Meeting ID: 960 3980 8420 Passcode: 492365
<a href="https://us02web.zoom.us/j/82382865043?pwd=NTE4SWMvTU1yROhTSGdCQzArLOd1dzO9">https://us02web.zoom.us/j/82382865043?pwd=NTE4SWMvTU1yROhTSGdCQzArLOd1dzO9</a>	Meeting ID: 823 8286 5043 Passcode: 2023



## PROGRAM SCHEDULE

Session Name	Session Time	Annotation
<b>Day 1 (Wednesday, 9th August 2023)</b>		
<b>ICOSI 2023</b>		
Registration	07.30 - 08.00	
Opening Ceremony of ICOSI 2023	08.00 - 12.30	
<b>FOCAL SESSION (ICE3IS 2023)</b>		
Registration Focal Session	12.30 - 13.00	
Opening	13.00 - 13.05	
Al-Qur'an Recitation	13.05 - 13.10	
National Anthem (Indonesia Raya) and Sang Surya	13.10 - 13.15	
Welcoming Speech from Chairperson	13.15 - 13.45	
Welcoming Speech from Dean of Faculty of Engineering	13.45 - 14.00	
Keynote speaker 1	14.00 - 15.00	
Break time	15.00 - 15.30	
Parallel Session 1	15.30 - 17.00	See the session code
<b>Day 2 (Thursday, 10th August 2023)</b>		
Registration	07.00 - 08.00	
Parallel Session 2	08.00 - 10.00	See the session code
Coffee Break	10.00 - 10.15	
Parallel Session 3	10.15 - 12.00	See the session code
Break Time	12.00 - 13.00	
Keynote speaker (Offline)	13.00 - 15.00	
Keynote speaker (Online)	13.00 - 15.00	
Closing Focal Session	15.00 - 15.30	
<b>ICOSI 2023</b>		
Talk show ICOSI 2023	15.00 - 16.20	
Closing Ceremony of ICOSI 2023	16.20 - 17.15	

## SESSION CODE

Scope	Session Time	Session Code
<b>Parallel Session 1 (Day 1: Wednesday, 9th August 2023)</b>		
Artificial Intelligence	15.30 - 17.00	AI.1
Electronic, Electrical & Power Engineering	15.30 - 17.00	EP.1
Information Systems and Embedded Systems	15.30 - 17.00	IE.1
Signal Processing, Robotics, and Computer Vision	15.30 - 17.00	SP.1
Telecommunications, Computer Network and Wireless Communications	15.30 - 17.00	TS.1
Offline Room	15.30 - 17.00	Ruang Sidang Teknik UMY
<b>Parallel Session 2 (Day 2: Thursday, 10 August 2023)</b>		
Artificial Intelligence	08.00 - 10.00	AI.2
Electronic, Electrical & Power Engineering	08.00 - 10.00	EP.2
Information Systems and Embedded Systems	08.00 - 10.00	IE.2
Signal Processing, Robotics, and Computer Vision	08.00 - 10.00	SP.2
Telecommunications, Computer Network and Wireless Communications	08.00 - 10.00	TS.2
Offline Room	08.00 - 10.00	Ruang Sidang Teknik UMY
<b>Parallel Session 3 (Day 2: Thursday, 10th August 2023)</b>		
Artificial Intelligence	10.15 - 12.00	AI.3
Electronic, Electrical & Power Engineering	10.15 - 12.00	EP.3
Information Systems and Embedded Systems	10.15 - 12.00	IE.3
Signal Processing, Robotics, and Computer Vision	10.15 - 12.00	SP.3
Telecommunications, Computer Network and Wireless Communications	10.15 - 12.00	TS.3
Offline Room	08.00 - 10.00	Ruang Sidang Teknik UMY

SCHEDULE OF CONFERENCE TRACK

**Artificial Intelligence**

**Parallel Session 1 (Day 1: Wednesday, 9th August 2023)**

**Session Code: AI.1**

**Room: [https://bit.ly/Day2InternationalConference\\_FTUMY](https://bit.ly/Day2InternationalConference_FTUMY)**

**Meeting ID: 859 048 0578**

**Passcode: ICOSI2023**

**Time: 15.30 - 17.00 WIB/Western Indonesia Time (GMT+7)**

**MODERATOR : Karisma Trinanda Putra**

**OPERATOR : Anisa Husnul Nabila**

<b>ID Paper</b>	<b>Title</b>	<b>Author</b>	<b>Presenter</b>
1570890434	A computational approach to understand the human thought process	Jitesh Dundas (University Of Pune, USA); Maurice Ling (Perdana University, Malaysia)	Jitesh Dundas
1570897836	Putaway Optimization of Warehouse Using Extended Weighted Tree Similarity	Hasan Zidni, Pranoto Rusmin and Muhammad Alifsyah Putra Nasution (Bandung Institute of Technology, Indonesia); Hayati Amalia (Bandung Institute of Technology & National Standardization Agency of Indonesia, Indonesia); Daniel Aquino Purba (Institut Teknologi Bandung, Indonesia)	Hasan Zidni
1570909426	Sentiment Analysis and Topic Modeling of E-grocery Application Reviews Using Naive Bayes and Support Vector Machine: A Case Study of Segari Data Review on the Google Play Store	Jefka Dhammananda (University of Indonesia, Indonesia); Indra Budi (Faculty of Computer Science & Universitas Indonesia, Indonesia); Aris Budi Santoso (University of Indonesia, Indonesia)	Jefka Dhammananda
1570923088	Machine Learning-Based Daily Rainfall Data Gap-Filling Method: A Case Study of DKI Jakarta Area	Muhammad Fajar Asshidiqi (Universitas Indonesia & BMKG, Indonesia); Adhi Harmoko Saputro (Universitas Indonesia, Indonesia)	Muhammad Asshidiqi

1570924666	IoT malware detection technique based on deep learning and Natural Language Processing	Marwa Abd Al Hamza (Al-Nahrain University & Mustaqbal University, Iraq); Ban Khammas (Al Nahrian University, Iraq)	Marwa Abd Al Hamza
1570901953	Challenges on Deep Learning Models to Improve Magnetic Resonance Imaging Brain Tumor Images Classification: A Review	Fuad Hammaminata Arya Anjasmara and Indah Soesanti (Universitas Gadjah Mada, Indonesia)	Fuad Hammaminata Arya Anjasmara; Indah Soesanti

## Artificial Intelligence

**Parallel Session 2 (Day 2: Thursday, 10th August 2023)**

**Session Code: AI.2**

**Room: [https://bit.ly/Day2InternationalConference\\_FTUMY](https://bit.ly/Day2InternationalConference_FTUMY)**

**Meeting ID: 859 048 0578**

**Passcode: ICOSI2023**

**Time: 08.00 - 10.00 WIB/Western Indonesia Time (GMT+7)**

**MODERATOR : Rama Okta Wiyagi**

**OPERATOR : Anisa Husnul Nabila**

ID Paper	Title	Author	Presenter
1570923141	Proposed Dense Block for Reconstruction Hyperspectral Imaging of Milk Object	Ahmad Prasetya, Firliyani Rahmatia Ningsih and Adhi Harmoko Saputro (Universitas Indonesia, Indonesia)	Ahmad Prasetya; Adhi Saputro; Firliyani Ningsih
1570925437	Improving Creditworthiness Prediction Using Preprocessing Stages and Feature Selection	Akbar Affaruk Khuzaimi Ahmadani and Sinung Suakanto (Telkom University, Indonesia); Hanif Fakhurroja (National Research and Innovation Agency, Indonesia & Telkom University, Indonesia); Margareta Hardiyanti (Universitas Gadjah Mada, Indonesia)	Akbar Ahmadani
1570929529	Heart Attack Prediction Using Machine Learning Classification Models	Jesslyn Audrey and Mochammad Haldi Widiyanto (Bina Nusantara University, Indonesia)	Jesslyn Audrey
1570881271	Metaverse Tweet Sentiment Text Classification Using Bert Algorithm And Tunning Hyperparameter	Hilda Nuraliza (Telkom University, Indonesia)	Hilda Nuraliza
1570935067	A study of lung cancer prediction using machine learning algorithms	Md Siam Taluckder (Lamar University, USA); Chinmoy Modak (Florida Polytechnic University, USA); Md Ahnaf Shahriyar (Westcliff University, USA); SM Yasir Arafat (Lamar University, USA); Md Abu Sayed Lemon (New Jersey, USA); Md Sabbirul Haque (NA, USA)	Md Siam Taluckder

1570935109	DeepFusion: A Hybrid Framework for Suicidal Risk Prediction Combining Traditional and Deep Learning Methods	Md Minhazur Rahman (University of South Dakota, USA)	
1570935610	Predicting Kidney Failure using an Ensemble Machine Learning Model: A Comparative Study	Jonayet Miah (University of South Dakota, USA); Md Siam Taluckder (Lamar University, USA); Md Ahnaf Shahriyar (Westcliff University, USA); Chinmoy Modak (Florida Polytechnic University, USA); SM Yasir Arafat (Lamar University, USA)	
1570935613	Deep Neural Network to Predict Pneumonia and COVID-19	Md Ahnaf Shahriyar (Westcliff University, USA); Chinmoy Modak (Florida Polytechnic University, USA); Md Siam Taluckder (Lamar University, USA); Siam Bin Shawkat (American International University-Bangladesh, Bangladesh); Md Sabbirul Haque (NA, USA); Md Abu Sayed Lemon (New Jersey, USA)	Chinmoy Modak

## Artificial Intelligence

**Parallel Session 3 (Day 2: Thursday, 10th August 2023)**

**Session Code: AI.3**

**Room: [https://bit.ly/Day2InternationalConference\\_FTUMY](https://bit.ly/Day2InternationalConference_FTUMY)**

**Meeting ID: 859 048 0578**

**Passcode: ICOSI2023**

**Time: 10.15 - 12.00 WIB/Western Indonesia Time (GMT+7)**

**MODERATOR : Rohmat Indra Borman**

**OPERATOR : Anisa Husnul Nabila**

ID Paper	Title	Author	Presenter
1570930434	EEG-Driven Age Prediction: Advancements in Machine Learning Models	Nazmus Sakib and Zawwad Bin Saif (IUT, Bangladesh); Md. Tanvir Hasan (BRAC, Bangladesh); Muhammad Adnan (IUT, Bangladesh); Fahim Faisal, Mirza Muntasir Nishat, Sanjida Ali and Ahmad Shafiullah (Islamic University of Technology, Bangladesh)	Zawwad Bin Saif
1570903234	Curiosity-Driven Rainbow Agent Exploratory Learning	Zhu Jiahui (Northeastern University, China); Tianhan Gao (Northeastern University of China, China); Qingwei Mi and Yiru Liu (Northeastern University, China)	Zhu Jiahui
1570929835	Revolutionizing Continuous Glucose Monitoring: A Non-Invasive Approach for Improved Daily Healthcare	Karisma Putra (Universitas Muhammadiyah Yogyakarta, Indonesia)	Karisma Putra
1570931209	Classification of Handwritten Sundanese Script Via Transfer Learning on CNN-based Architectures	Masayu Anandita Prameswari (Telkom University, Indonesia); Mahmud Dwi Sulistiyo (Telkom University, Indonesia & Nagoya University, Japan); Aditya Firman Ihsan (Telkom University, Indonesia)	Masayu Prameswari
1570930061	A Neural Network Recommendation Model for Final Topic Selection	Mariana Syamsudin (Polytechnic State of Pontianak, Indonesia)	

1570935897	Prediction of payment modes for online taxi users using machine learning	Agus Pratondo, Ady Purna Kurniawan, Fery Prasetyanto, Desy Puspa Rahayu, Mohammad Akbar and Mindit Eriyadi (Telkom University, Indonesia)	
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## Electronic, Electrical, & Power Engineering

Parallel Session 1 (Day 1: Wednesday, 9th August 2023)

Session Code: EP.1

Room: [https://bit.ly/Day2InternationalConference\\_FTUMY](https://bit.ly/Day2InternationalConference_FTUMY)

Meeting ID: 859 048 0578

Passcode: ICOSI2023

Time: 15.30 - 17.00 WIB/Western Indonesia Time (GMT+7)

**MODERATOR** : Tiang Tow Leong

**OPERATOR** : Bayu Rizky Ramdhan Supeno

ID Paper	Title	Author	Presenter
1570871519	Fabrication of Perovskite Solar Cell (PSC) Using NiO/GO Material	Denny Widhiyanuriyawan (Brawijaya University, Indonesia); Nurkholis Hamidi (Brawijaya University & Fakultas Teknik UB, Indonesia); Rustan Hatib (Universitas Tadulako, Indonesia); Reynolds Widhiyanurrochmansyach (Universitas Gadjah Mada, Indonesia); Darjito Darjito (Universitas Brawijaya, Indonesia)	Reynolds Widhiyanurrochmansyach
1570890690	Automatic Paper Counter Machine Using Internet of Things and Arduino	Andreas Lie Alviero, Dimas Setiawan Nugroho, Zanu Saputra and Yudhi Jais (Politeknik Manufaktur Negeri Bangka Belitung, Indonesia)	Dimas Setiawan Nugroho
1570905775	Design of a Double Pass Shell and Tube Heat Exchanger for Marine Application With COMSOL Multiphysics	Loubna Khaled (Lebanese University, Lebanon); Shahid Islam (Higher Colleges of Technology, United Arab Emirates); Mervat Madi (Higher Colleges of Technology (HCT), Lebanon); Samer Maaraoui (Lebanese University, United Arab Emirates); Karim Y. Kabalan (American University of Beirut, Lebanon)	Loubna Khaled

<b>1570915304</b>	Electric Vehicles Hosting Capacity Assessment for a South African Low Voltage Distribution Network	Vincent B Umoh, Abayomi Adebiyi and Katleho Moloji (Durban University of Technology, South Africa)	Vincent Umoh
<b>1570909374</b>	Short-Term Wind Power Forecasting in East Java using Gated Recurrent Unit	Muhammad Robith Robith, Rony Seto Wibowo and Wahyu Wibowo (Institut Teknologi Sepuluh Nopember, Indonesia)	Muhammad Robith Robith

## Electronic, Electrical, & Power Engineering

**Parallel Session 2 (Day 2: Thursday, 10th August 2023)**

**Session Code: EP.2**

**Room: [https://bit.ly/Day2InternationalConference\\_FTUMY](https://bit.ly/Day2InternationalConference_FTUMY)**

**Meeting ID: 859 048 0578**

**Passcode: ICOSI2023**

**Time: 08.00 - 10.00 WIB/Western Indonesia Time (GMT+7)**

**MODERATOR : Faaris Mujaahid**

**OPERATOR : Bayu Rizky Ramdhan Supeno**

ID Paper	Title	Author	Presenter
<b>1570918024</b>	Yogyakarta Electricity System Expansion Planning Considering Renewable Energy and CO2 Emission Reduction	Kriskalia Mayangkari (Gadjah Mada University, Indonesia); Sarjiya Sarjiya and Sasongko Hadi (Universitas Gadjah Mada, Indonesia)	Kriskalia Mayangkari
<b>1570918114</b>	Smart Corridor Lighting Design Using Microcontroller and Ultrasonic Sensors	Tony Hariadi, Leviana Noer Ramadhani, Kunnu Purwanto and Febri Yoga Darmawan (Universitas Muhammadiyah Yogyakarta, Indonesia)	Tony Hariadi
<b>1570917102</b>	Comparative Study of Maximum-Power-Point Tracking with Multiplier-Based Step-Size Variation	Niphat Jantharamin and Peeradech Lousuwankun (Naresuan University, Thailand)	Niphat Jantharamin
<b>1570919810</b>	Finite Element Analysis on HV Bushing Turrets at Power Transformer 95 MVA, 66kV	Wilarso Wilarso, Asep Saepudin Saepudin, Asep Dharmanto Dharmanto and Hilman Sholih (Sekolah Tinggi Teknologi Muhammadiyah Cileungsi, Indonesia); Mujiarto Mujiarto (Muhammadiyah University of Tasikmalaya, Indonesia)	Asep Saepudin Saepudin; Asep Dharmanto Dharmanto
<b>1570926104</b>	Modeling-Simulation to Compare Mono-facial and Bifacial Solar Panels for Commercial Building in Matakus Island	Ayu L Padmadewi (Bandung Institute of Technology, Indonesia); Lasro Sihite (Institute of Technology Bandung, Indonesia); Raisa Syahida Salsabila (Indonesia); Burhanuddin Halimi (Bandung Institute of Technology, Indonesia)	

## Electronic, Electrical, & Power Engineering

Parallel Session 3 (Day 2: Thursday, 10th August 2023)

Session Code: EP.3

Room: [https://bit.ly/Day2InternationalConference\\_FTUMY](https://bit.ly/Day2InternationalConference_FTUMY)

Meeting ID: 859 048 0578

Passcode: ICOSI2023

Time: 10.15 - 12.00 WIB/Western Indonesia Time (GMT+7)

**MODERATOR** : Hana Abdul Halim

**OPERATOR** : Bayu Rizky Ramdhan Supeno

ID Paper	Title	Author	Presenter
1570921847	Time Delay Setting of Overcurrent Relay Protection Using Modified Particle Swarm Optimization in Electrical System of Moramo Steam Power Plant	Adhi Setiawan Samsul (Institut Teknologi Sepuluh Nopember Surabaya, Indonesia); Margo Pujiantara (Institut Teknologi Sepuluh Nopember, Indonesia); Ardyono Priyadi (ITS, Indonesia)	Adhi Setiawan Samsul
1570923467	Prediction of Electrical Energy Consumption of Educational Buildings in the Tropics Using Support Vector Regression (SVR)	Aulia Rahmah (Hasanuddin University, Indonesia); Ansar Suyuti (Universitas Hasanuddin, Indonesia); Ikhlas Kitta (Hasanuddin University, Indonesia)	
1570923655	Two Axis Feedback System for Radiosonde Antenna Tracker Controller	Rara Dwi Oktaviani (Khon Kaen University, Thailand); Rama Okta Wiyagi (Tokyo Metropolitan University, Japan & Universitas Muhammadiyah Yogyakarta, Indonesia); Yudhi Ardiyanto (Universitas Muhammadiyah Yogyakarta, Indonesia)	Rara Dwi Oktaviani
1570932671	Design of A 67 V 24 Ah Electrical System Battery Pack	Bandiyah Sri Aprillia, Desri Kristina Silalahi, Jangkung Raharjo, Mamat Rokhmat, Muhammad Ferdian Furkhan and Fadli Abdul Syukur Wijaya (Telkom University, Indonesia)	
1570901793	Application of Current Mirrors Based on FGMOS Field Effect Transistors to Reduce Power Consumption on Active Devices	Sujito Sujito (State University of Malang, Indonesia); Muhammad Rafli Dwi Suryanto, Ilham Ari Elbaith Zaeni and Mohamad Rodhi Faiz (Universitas Negeri	

		Malang, Indonesia); Muladi Muladi (State University of Malang & Universitas Negeri Malang, Indonesia); Abdullah Iskandar Syah (Universitas Negeri Malang, Indonesia)	
<b>1570934840</b>	Bridging the Power Gap: Evaluating the Efficiency and Cost-Effectiveness of PV-Based Smart Grid Integration as a Solution for Power Deficiency in Catanduanes Province, Philippines	Abigail J Mendoza (Polytechnic University of the Philippines, Philippines); Ellah Marie S Tatalia (Philippines); Daryl Andrei M Banzon, Xavier Lorenzo C Jose and Geanne Bea Erica D. Tamayo (Polytechnic University of the Philippines, Philippines); Paul Carlo R. Salonga (Polytechnic University of the Philippines, Philippines); Orland D Tubola, Vince Dhyzel V. Igano and Jo-Ann Magsumbol (Polytechnic University of the Philippines, Philippines)	
<b>1570937539</b>	Simulation and Design of a Multi-Carrier Microgrid Using Hydrogen Fuel Cell Integration For Quinalasag Island, Garchitorena, Camarines Sur	Mark Arlie Azares, Ferdinand G. Castillejos, Keen Jhun A Jamito, Jamie Lou I. Lestones and Joseph Ian Macatangay (Polytechnic University of the Philippines, Philippines); John Michael B Reyes (Polytechnic University of the Philippines & PUP Radio Engineering Circle, Philippines); Monica N Yap, Orland D Tubola and Manuel M Muhi (Polytechnic University of the Philippines, Philippines)	

## Information Systems and Embedded Systems

**Parallel Session 1 (Day 1: Wednesday, 9th August 2023)**

**Session Code: IE.1**

**Room: [https://bit.ly/Day2InternationalConference\\_FTUMY](https://bit.ly/Day2InternationalConference_FTUMY)**

**Meeting ID: 859 048 0578**

**Passcode: ICOSI2023**

**Time: 15.30 - 17.00 WIB/Western Indonesia Time (GMT+7)**

**MODERATOR : Laila Ma'rifatul Azizah**

**OPERATOR : Nur Sakinah**

ID Paper	Title	Author	Presenter
1570887371	Design and Implementation of Smart Room Prototype using Google Assistant, Internet of Things Platform, and Cloud Messaging Services	Asep Najmurrokhman, Udin Komarudin and Dede Irawan Saputra (Universitas Jenderal Achmad Yani, Indonesia); Nanang Ismail (UIN Bandung, Indonesia); Rifqi Amzad Firdaus (Universitas Jenderal Achmad Yani, Indonesia); Kusnandar Kusnandar, k (UNJANI, Indonesia)	Asep Najmurrokhman
1570890333	A Systematic Literature Review on Operating System Security: Distribution and Issues	Ahmad Zainudin Mahfud, Muhamad Tegar Sabila, Nugroho Adi Wibowo, Agria Rhamdhan and Dimas Febriyan Priambodo (Politeknik Siber dan Sandi Negara, Indonesia)	Ahmad Mahfud
1570912393	Blockchain based Traceability in Computer Peripherals in Universities scenarios	Jakka Raja Harshit Kumar (KL University & K L University, India); Bhargavramu Nettem (K L University, India); Lella Saketh Naga Durga (KL University & K L U, India); Nimmagadda Dinesh (Kl u & Klu, India); Aniruddha Bhattacharjya (SGT University, India)	Jakka Raja Kumar
1570878272	Comparative Performance Analysis of Javascript Frontend Web Frameworks	Ricky Rivaldo Jikson and Alexander Agung Santoso Gunawan (Bina Nusantara University, Indonesia); Jason Tong (Sandang c2, Indonesia)	Jason Tong

<b>1570882675</b>	Cyber Security in Smart Cities and Its Challenges: A Systematic Literature Review	Benedicto Theodore Ruatta, Gabriel Jonatan Piekarsa, Jeremia Christian, Alexander Agung Santoso Gunawan and Ivan Sebastian Edbert (Bina Nusantara University, Indonesia)	Benedicto Ruatta
<b>1570890746</b>	Securing Networks with Port Knocking: An Experimental Study on Ubuntu and Kali	Dzakwan AD Bewasana, Muhammad SA Harumnanda and Dimas Febriyan Priambodo (Politeknik Siber dan Sandi Negara, Indonesia)	Dzakwan Bewasana

## Information Systems and Embedded Systems

**Parallel Session 2 (Day 2: Thursday, 10th August 2023)**

**Session Code: IE.2**

**Room: [https://bit.ly/Day2InternationalConference\\_FTUMY](https://bit.ly/Day2InternationalConference_FTUMY)**

**Meeting ID: 859 048 0578**

**Passcode: ICOSI2023**

**Time: 08.00 - 10.00 WIB/Western Indonesia Time (GMT+7)**

**MODERATOR : Rohmat Indra Borman**

**OPERATOR : Nur Sakinah**

ID Paper	Title	Author	Presenter
1570892069	UML Artifact Extraction for Activity Diagram Based on Step Performed Using Text Mining: Case Study of SRS Sipranta Application	Muh. Fadhil Muqsith, Yudi Priyadi and Widi Astuti (Telkom University, Indonesia)	Muh. Fadhil Muqsith
1570919183	Validating Requirement Specification using Text Mining Analysis	Muhamad Azmi Rizkifar, Yudi Priyadi and Muhammad Johan Alibasa (Telkom University, Indonesia)	Muhamad Rizkifar
1570920327	Implementation of Design Conformance Measurement Process between Data Entry Form and Class on SRS Penguin	Syahrul Ramadhani, Yudi Priyadi and Monterico Adrian (Telkom University, Indonesia)	Syahrul Ramadhani
1570921354	Evaluation of Continual Usage of Telemedicine Applications in Indonesia	Erwin Halim (Bina Nusantara University & School of Information Systems, Indonesia); Abdurrajjid Fadhil Juzar, Muhammad Naufal Maftukhan and Devi Siti Azzahara (Bina Nusantara University, Indonesia); Placide Poba-Nzaou (University of Quebec in Montreal, Canada)	Muhammad Maftukhan
1570897648	UI-FR Compatibility: Measurement of Conformity of User Interface Components Based on Functional Requirements in E-Pen Applications through a Text Analysis Approach	Ilmam Djil Iqram Thauriq, Yudi Priyadi and Ati Suci Dian Martha (Telkom University, Indonesia)	
1570926160	Analysis of Budget Submission Process at System BackOffice Selindo Using the TAM Model	Rudy Tjahyadi, Abdurrachman Nurwira Lucky Akrabi and Michael Angelus (Bina Nusantara University, Indonesia)	Rudy Tjahyadi



## Information Systems and Embedded Systems

**Parallel Session 3 (Day 2: Thursday, 10th August 2023)**

**Session Code: IE.3**

**Room: [https://bit.ly/Day2InternationalConference\\_FTUMY](https://bit.ly/Day2InternationalConference_FTUMY)**

**Meeting ID: 859 048 0578**

**Passcode: ICOSI2023**

**Time: 10.15 - 12.00 WIB/Western Indonesia Time (GMT+7)**

**MODERATOR : Nikhil Kumar Marriwala**

**OPERATOR : Nur Sakinah**

ID Paper	Title	Author	Presenter
1570922603	Implementation of the Requirement Elicitation comparison process with Step Performed based on text weighting Using TF-IDF At SRS OnlineLaundry	Tiara Iva Majoli (Telkom University - Informatics Eng, Indonesia); Yudi Priyadi and Ati Suci Dian Martha (Telkom University, Indonesia)	Tiara Majoli
1570922857	Recommendations for Fixing of Step Performed and Sequence Diagram Based on Text Mining on SRS Digibrary	Fiyona Anmila Syamsir (Telkom University & Telkom, Indonesia); Dawam Dwi Jatmiko Suwawi and Yudi Priyadi (Telkom University, Indonesia)	Fiyona Syamsir
1570923098	Accuracy Evaluation of Infrared and Ultrasonic Sensors for Car Parking Systems with Confusion Matrix and RMSE	Steven The (Bina Nusantara, Indonesia); Ethan E Mathias (Bina Nusantara & BNCC Bandung, Indonesia); Jelshen Febryand Valesco (Bina Nusantara, Indonesia); Kenneth William Noverianto (Bina Nusantara University, Indonesia); Raihan Elta (Bina Nusantara University & University Bina Nusantara, Indonesia); Budi Juarto (Bina Nusantara University, Indonesia)	Ethan Mathias
1570923203	Enabling Financial Inclusion: Development and Implementation of Visipay's Backend System for Users with Visual Impairments	Syariif Abdurrahman Bathik, Rahmat Fauzi and Sinung Suakanto (Telkom University, Indonesia)	Syariif Bathik
1570923433	Exploring The Success Factors Digital Lending: An Approach from Consumer's Perspective	Erwin Halim (Bina Nusantara University & School of Information Systems, Indonesia); Nadia Salsabila (Bina Nusantara University, Indonesia); Zilvian	Zilvian Zidane; Nadia Salsabila

		Zidane (Binus University, Indonesia); Placide Poba-Nzaou (University of Quebec in Montreal, Canada)	
<b>1570918473</b>	Implementing a Data-Driven Approach for Process Mining: A Comprehensive Methodology for Extracting Insights from Incident Management Event Logs	Farras Hilmy Arrahmani, Brilliant Adhiyaksa Kuswandi, Najma Syarifah Rahmah, Rachmadita Andreswari and Muhammad Amien Fadhillah (Telkom University, Indonesia)	
<b>1570931381</b>	Exploring Vehicle Tracking Performance with LoRa Technology: An Analysis of Speed and Environmental Factors	Albert Sagala, Rondy Sinaga and Suprianto Hutapea (Institut Teknologi Del, Indonesia)	Albert Sagala

## Signal Processing, Robotics and Computer Vision

**Parallel Session 1 (Day 1: Wednesday, 9th August 2023)**

**Session Code: SP.1**

**Room: [https://bit.ly/Day2InternationalConference\\_FTUMY](https://bit.ly/Day2InternationalConference_FTUMY)**

**Meeting ID: 859 048 0578**

**Passcode: ICOSI2023**

**Time: 15.30 - 17.00 WIB/Western Indonesia Time (GMT+7)**

**MODERATOR : Indar Surahmat**

**OPERATOR : RA Dhea Namyra Alissa**

ID Paper	Title	Author	Presenter
1570922133	Microcontroller-based Multi-objective Genetic Algorithm for Mobile Robots Path Planning	Rijalul Haq, Djoko Purwanto and Ronny Mardiyanto (Institut Teknologi Sepuluh Nopember, Indonesia)	Rijalul Haq
1570879940	A Systematic Literature Review: The Effectiveness of ANPR for Electronic Law Traffic Enforcement	Yulia Stefani (Bina Nusantara University, Indonesia); Gaudentius Matthew Setiadi (Binus University, Indonesia); Alexander Agung Santoso Gunawan (Bina Nusantara University, Indonesia)	Yulia Stefani; Gaudentius Setiadi
1570885787	Social Media User Awareness Towards Personal Identifiable Information's Data Security In Indonesian Millennial Generation	Gabriel Alexander Christie, Ivan Ivan, Javier Trevan, Said Achmad, Franz Adeta Junior and Nadia Nadia (Bina Nusantara University, Indonesia)	Gabriel Christie
1570885788	Raising Cyber Security Awareness to Reduce Social Engineering through Social Media in Indonesia	Nathanael Reuben, Rionel Irawan, Rainer Nathanael Jovann, Franz Adeta Junior, Said Achmad and Nadia Nadia (Bina Nusantara University, Indonesia)	Rionel Irawan
1570920743	Estimation of Cholesterol for Multiple Food Dish on One Plate Using Computer Vision	Hernawati Erna and Ingrid Nurtanio (Hasanuddin University, Indonesia); Syafaruddin Syafaruddin (Universitas Hasanuddin Makassar, Indonesia)	Hernawati Erna; Syafaruddin Syafaruddin; Ingrid Nurtanio
1570927457	Comparison of UI/UX Development using Design	Rafi Adinegoro and Sinung Suakanto (Telkom University, Indonesia); Hanif Fakhurroja	Rafi Adinegoro

	Thinking vs Lean UX: A Comparative Study	(National Research and Innovation Agency, Indonesia & Telkom University, Indonesia); Margareta Hardiyanti (Universitas Gadjah Mada, Indonesia)	
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## Signal Processing, Robotics and Computer Vision

**Parallel Session 2 (Day 2: Thursday, 10th August 2023)**

**Session Code: SP.2**

**Room: [https://bit.ly/Day2InternationalConference\\_FTUMY](https://bit.ly/Day2InternationalConference_FTUMY)**

**Meeting ID: 859 048 0578**

**Passcode: ICOSI2023**

**Time: 08.00 - 10.00 WIB/Western Indonesia Time (GMT+7)**

**MODERATOR : Nurwahyu Alamsyah**

**OPERATOR : RA Dhea Namyra Alissa**

ID Paper	Title	Author	Presenter
1570885790	The Usage of Machine Learning on Penetration Testing Automation	Clintswood Clintswood, Delbert Giovanni Lie, Lexiandy Kuswandana, Nadia Nadia, Said Achmad and Derwin Suhartono (Bina Nusantara University, Indonesia)	Delbert Lie
1570894824	Comparative Performance of Pre-Trained CNN Architectures on Dermoscopic Pigmented Skin Lesions Classification	Erwin Setyo Nugroho (Universitas Gadjah Mada & Politeknik Caltex Riau, Indonesia); Igi Ardiyanto (Universitas Gadjah Mada & Faculty of Engineering, Indonesia); Hanung Adi Nugroho (Universitas Gadjah Mada, Indonesia)	Erwin Nugroho
1570907625	Spatial, Spatiotemporal, and Feature Analysis of Electroencephalogram during Imagined Speech with Visual vs Audio Cues	Nilam Fitriah (Institut Teknologi Bandung, Indonesia); Astri Budikayanti (Universitas Indonesia, Indonesia); Hasballah Zakaria and Tati Mengko (ITB, Indonesia)	Nilam Fitriah
1570935452	Energy aware clustering routing protocol for dense underwater acoustic wireless sensor network	Muhsin Hassanu (University of Salford, Manchester, United Kingdom (Great Britain))	Muhsin Hassanu

## Signal Processing, Robotics and Computer Vision

Parallel Session 3 (Day 2: Thursday, 10th August 2023)

Session Code: SP.3

Room: [https://bit.ly/Day2InternationalConference\\_FTUMY](https://bit.ly/Day2InternationalConference_FTUMY)

Meeting ID: 859 048 0578

Passcode: ICOSI2023

Time: 10.15 - 12.00 WIB/Western Indonesia Time (GMT+7)

**MODERATOR : Nurwahyu Alamsyah**

**OPERATOR : RA Dhea Namyra Alissa**

ID Paper	Title	Author	Presenter
1570921695	Car Body Damage Detection System using YOLOv7	Muhammad Remzy Syah Ramazhan and Alhadi Bustamam (Universitas Indonesia, Indonesia); Rinaldi Anwar (Global Risk Management, Indonesia)	Muhammad Ramazhan
1570922209	Development of Deep Learning Model Base on Modified CNN Architectures for Brain Tumours Early Diagnosis	Zul Indra (Universitas Riau, Indonesia); Yessi Jusman (Universitas Muhammadiyah Yogyakarta, Indonesia); Rahmad Kurniawan (Universitas Riau, Indonesia & Universiti Kebangsaan Malaysia, Malaysia)	
1570922731	Detection and Assessment of Damaged Objects on the Car Body Based on YOLO-V5	Harum Ananda Setyawan (University of Indonesia, Indonesia); Alhadi Bustamam (Universitas Indonesia, Indonesia); Rinaldi Anwar (Global Risk Management, Indonesia)	Harum Setyawan
1570922867	YOLOv8 for Product Brand Recognition as Inter-Class Similarities	Jacqueline Abyasa, Marvelius Putra Kenardi, Jesslyn Audrey, Jonathan Jason Jovanka, Christoper Justino and Rissa Rahmania (Bina Nusantara University, Indonesia)	Jacqueline Abyasa

## Telecommunications, Computer Network and Wireless Communications

**Parallel Session 1 (Day 1: Wednesday, 9th August 2023)**

**Session Code: TS.1**

**Room: [https://bit.ly/Day2InternationalConference\\_FTUMY](https://bit.ly/Day2InternationalConference_FTUMY)**

**Meeting ID: 859 048 0578**

**Passcode: ICOSI2023**

**Time: 15.30 - 17.00 WIB/Western Indonesia Time (GMT+7)**

**MODERATOR : Widyasmoro**

**OPERATOR : Reffinola Fathiny**

ID Paper	Title	Author	Presenter
1570881500	A Systematic Literature Review: Challenges of Security Optimization while Maintaining a Good Accessibility in Internet of Things	Devin Gunadi Tampubolon, Alexander Agung Santoso Gunawan, Ivan Sebastian Edbert, Gerald Nathaniel Widodo and Janet S Margaretha (Bina Nusantara University, Indonesia)	Devin Tampubolon
1570889768	IoT Based Biofloc Automation and Monitoring for Smart Fish Production	Ahmed Shafkat (Lecturer, CSE, Bangladesh University of Business & Technology (BUBT)); Ezharul Islam (Computer Science and Engineering from Jahangirnagar University, Bangladesh)	Ahmed Shafkat; Ezharul Islam
1570922632	Dashboard for Manufacturing Waste Utilization Based on Circular Economy Model Using the ERP System in MSMEs	Zeza Purydana Harland (Telkom University, Indonesia); Ari Yanuar Ridwan (Bandung Institute of Technology & Telkom University, Indonesia); Umar Yunan Hedyanto (Telkom University, Indonesia)	Zeza Harland
1570922633	Designing Dashboard for Procurement with Circular Economy Concept Based on Enterprise Resource Planning System in MSMEs	Mutiara Salsabila Putri N (Telkom University, Indonesia); Ari Yanuar Ridwan (Bandung Institute of Technology & Telkom University, Indonesia); Umar Yunan Hedyanto (Telkom University, Indonesia)	Mutiara Putri N

<b>1570923542</b>	Metaverse-Based Learning Media to Increase Wireless Security Awareness	Muhammad Habibi Motaain Nirbaya, Ahmad Zainudin Mahfud and Dzakwan AD Bewasana (Politeknik Siber dan Sandi Negara, Indonesia); Septia Ulfa Sunaringtyas (National Cyber and Crypto Polytechnic, Indonesia)	Muhammad Motaain Nirbaya
<b>1570923530</b>	A Single Site Coverage Assessment of Commercial 5G NSA Implementation in Different Areas using Field Measurement	Indar Surahmat and Widyasmoro Widyasmoro (Universitas Muhammadiyah Yogyakarta, Indonesia)	
<b>1570918818</b>	Relay Selection and Power Control in D2D-enabled Vehicular Communication	Toha Ardi Nugraha (Czech Technical University in Prague, Czech Republic)	Toha Nugraha



## Telecommunications, Computer Network and Wireless Communications

**Parallel Session 2 (Day 2: Thursday, 10th August 2023)**

**Session Code: TS.2**

**Room: [https://bit.ly/Day2InternationalConference\\_FTUMY](https://bit.ly/Day2InternationalConference_FTUMY)**

**Meeting ID: 859 048 0578**

**Passcode: ICOSI2023**

**Time: 08.00 - 10.00 WIB/Western Indonesia Time (GMT+7)**

**MODERATOR : Nur Hayati**

**OPERATOR : Reffinola Fathiny**

ID Paper	Title	Author	Presenter
1570922727	Class-based Grid Field Area Communication with Named Data Networking Approach	Gregorius Pradana Satriawan, Leanna Yovita and Ratna Mayasari (Telkom University, Indonesia)	Gregorius Pradana Satriawan
1570933603	E-voting using Blockchain: a Systematic Literature Review	Julian Alifirman Wardana, Fajar Muhammad Hamka, Rahmat Syifana Jaelani and Mochammad Haldi Widiyanto (Bina Nusantara University, Indonesia)	Fajar Hamka
1570938487	Multidimensional Analysis In Lectures to Improve Course Learning Outcome Achievement In Second Year Information Systems Students	Barajati Syakurnia, Rachmadita Andreswari and Taufik Adi (Telkom University, Indonesia)	Barajati Syakurnia
1570922634	Applying The Circular Economy Concept in Sales Management Dashboard at MSMEs Using ERP Systems	Chaula Nurdin (Telkom University, Indonesia); Ari Yanuar Ridwan (Bandung Institute of Technology & Telkom University, Indonesia); Umar Yunan Hedyanto (Telkom University, Indonesia)	Chaula Nurdin
1570940669	Exploring the Potential Synergy: Examining the Coexistence of Diverse Technologies within the 6 GHz Frequency Band	Fierza Mutuahdi Pasaribu (University of Indonesia, Indonesia); Anna Christina Situmorang, Muhammad Suryanegara and Dadang Gunawan (Universitas Indonesia, Indonesia)	Fierza Pasaribu

<b>1570922727</b>	Class-based Grid Field Area Communication with Named Data Networking Approach	Gregorius Pradana Satriawan, Leanna Yovita and Ratna Mayasari (Telkom University, Indonesia)	Gregorius Pradana Satriawan
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## OFFLINE PRESENTATION

**Parallel Session 1 (Day 1: Wednesday, 9th August 2023)**

**Session Code: OR.1**

**Topic: All Scope of ICE3IS 2023**

**Room: Sidang Teknik UMY Room**

**Time: 15.30 - 17.00 WIB/Western Indonesia Time (GMT+7)**

**MODERATOR : Khairul Hafizi**

**OPERATOR : Jalaludin**

ID Paper	Title	Author	Presenter
1570925792	Computer Vision For Determining Trajectory And Impact Position Of Fighter-Aircraft Bombing	Ardian Infantono (Universitas Gadjah Mada & Yogyakarta, Indonesia); Ridi Ferdiana (Universitas Gadjah Mada, Indonesia); Rudy Hartanto (Gadjah Mada University & Electrical Engineering and Information Technology Departmen, Faculty of Engineering Gadjah Mada University, Indonesia)	Ardian Infantono
1570913148	Securing Indonesian Hoax News Dataset with Blockchain, IPFS, and Voting Mechanism	Akhmad Rizal Arifudin (Politeknik Siber dan Sandi Negara, Indonesia); Ray Novita Yasa (Poltek Siber Dan Sandi Negara, Indonesia); Giri Noto (Politeknik Siber dan Sandi Negara, Indonesia)	Akhmad Arifudin
1570922838	Geometric Distortion Detection in Fused Filament Fabrication Using Augmented Reality and Computer Vision	George Wu, Chi-Tsun Cheng and Toh Yen Pang (RMIT University, Australia); Miro Miletic (MEMKO Pty. Ltd, Australia)	George Wu
1570894579	Big Data Analysis of Social Media: A Case Study of Citizens Comments of Integrated Dynamic Record Information System Application (SRIKANDI)	Mutiara Auliya Khadija (Universitas Sebelas Maret, Indonesia & Universitas Gadjah Mada, Indonesia); Ida Setya Dwi Jayanti, Hanum Kartikasari and Fahmi Ulin Ni Mah (Universitas Sebelas Maret, Indonesia)	Mutiara Khadija

## OFFLINE PRESENTATION

**Parallel Session 2 (Day 2: Thursday, 10th August 2023)**

**Session Code: OR.2**

**Topic: All Scope of ICE3IS 2023**

**Room: Sidang Teknik UMY Room**

**Time: 08.00 - 10.00 WIB/Western Indonesia Time (GMT+7)**

**MODERATOR : Anna Nur Nazilah Chamim**

**OPERATOR : Jalaludin**

ID Paper	Title	Author	Presenter
<b>1570918565</b>	Simulation and Analysis of Venturi Tubes for Use in Duct Wind Turbine Power Plants	Munnik Haryanti (Universitas Indonesia, Indonesia)	Munnik Haryanti
<b>1570929895</b>	Design of IoT Based AC Electric Vehicle Supply Equipment	Syahrul Akbar, Satrio Rizq Mauladito and Fatjri Zikri (Telkom University, Indonesia); Irwan Purnama (Badan Riset dan Inovasi Indonesia (BRIN) & Universitas Telkom, Indonesia); Angga Rusdinar (Telkom University, Indonesia)	Syahrul Akbar
<b>1570900611</b>	5G Lab as a Service (LaaS) Simulator Deployment: Study Case Scenarios in Indonesian Higher Education	Sinta Novanana and Gunawan Wibisono (Universitas Indonesia, Indonesia)	Sinta Novanana; Gunawan Wibisono
<b>1570928023</b>	Development of Novel Axial Bearingless FSPM using Double Stator for Pump Applications	Aji N. Pakha, Min-Fu Hsieh and Thanh Anh Huynh (National Cheng Kung University, Taiwan)	Aji Pakha
<b>1570923547</b>	Augmented Reality Technology in Education: Kindergarten Education Content Trends	Alfian Alfian, Adhistya Erna Permanasari and Silmi Fauziati (Universitas Gadjah Mada, Indonesia)	Alfian Alfian
<b>1570938530</b>	Classification of Hoax News using Machine Learning and Neural Network with BERT Embeddings	Budi Juarto (Bina Nusantara University, Indonesia)	
<b>1570931546</b>	Raspberry-Pi Based Unmanned Ground Vehicle Location Monitoring System	Fajrina Nurul Arinda Pramesti and Angga Rusdinar (Telkom University, Indonesia); Irwan Purnama (Badan Riset dan Inovasi Indonesia (BRIN) & Universitas Telkom, Indonesia)	Fajrina Pramesti

## OFFLINE PRESENTATION

**Parallel Session 3 (Day 2: Thursday, 10th August 2023)**

**Session Code: OR.3**

**Topic: All Scope of ICE3IS 2023**

**Room: Sidang Teknik UMY Room**

**Time: 10.15 - 12.00 WIB/Western Indonesia Time (GMT+7)**

**MODERATOR : Anna Nur Nazilah Chamim**

**OPERATOR : Jalaludin**

ID Paper	Title	Author	Presenter
<b>1570916246</b>	The Classification System uses a Support Vector Machine and a decision tree fine method based on X-Ray images for Spinal Abnormalities	Anna Nur Nazilah Chamim and Yessi Jusman (Universitas Muhammadiyah Yogyakarta, Indonesia); Hasimah Ali (University Malaysia Perlis, Malaysia); Siti Nurul Aqmariah Mohd Kanafiah (Universiti Malaysia Perlis, Malaysia); Ibnu Rahmat Siddik (Universitas Muhammadiyah Yogyakarta, Indonesia); Mohd Imran Yusof (Universiti Sains Malaysia, Malaysia)	
<b>1570934196</b>	Corrosion Analysis on Reinforcing Steel in Concrete Using the Eddy Current Method	Aulia Chanief Rahita (University of Muhammadiyah Yogyakarta, Indonesia); Ahmad Zaki (Universitas Muhammadiyah Yogyakarta, Indonesia)	Aulia Rahita; Ahmad Zaki
<b>1570923758</b>	Comparison of Deep Learning Methods for Bear Presence Detection at Conservation Center	Yasmina Azzahra Arifin (University of Muhammadiyah Yogyakarta, Indonesia); Slamet Riyadi (Universitas Muhammadiyah Yogyakarta, Indonesia)	
<b>1570923374</b>	Range of Motion Detection System in Humans Based on Mediapipe Special Flexion-Extension and Abduction-Adduction Movements	Muhamad Yusvin Mustar and Bintang Surya Tryatmojo (Universitas Muhammadiyah Yogyakarta, Indonesia); Rama Okta Wiyagi (Tokyo Metropolitan University, Japan & Universitas Muhammadiyah Yogyakarta,	Maulana Hidayat; Bintang Tryatmojo

		Indonesia); Maulana Hidayat (Universitas Muhammadiyah Yogyakarta, Indonesia)	
<b>1570936184</b>	Design of Lung Forced Vital Capacity Measuring Instrument with Flow Sensor	Erika Loniza and Amalia Chantika Putri (Universitas Muhammadiyah Yogyakarta, Indonesia); Kurnia Chairunnisa (Muhammadiyah University of Yogyakarta, Indonesia)	Erika Loniza