

ICIST 2024

INTERNATIONAL CONFERENCE ON INNOVATION
IN SCIENCE AND TECHNOLOGY



PROGRAM BOOK

THE 6TH INTERNATIONAL CONFERENCE ON INNOVATION
IN SCIENCE AND TECHNOLOGY



BALI. DECEMBER 5 - 6 2024

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The 6th International Conference on Innovation in Science and Technology

Bali
December 5-6th, 2024

Organizer



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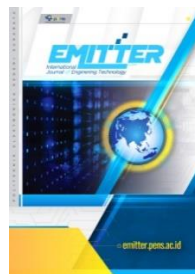
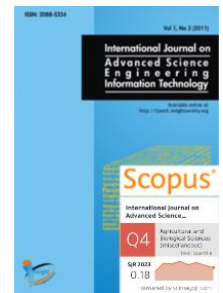
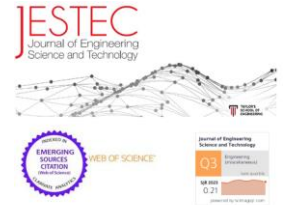
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MESSAGE FROM GENERAL CHAIR

On behalf of the Organizing Committee and as General Chairs of the 2024 International Conference on Innovation in Science and Technology (ICIST 2024), we would like to welcome you to Bali, Indonesia, either in person or virtually. The theme of the conference is 'Sustainable Future : Integrating Green Innovations and Smart Inclusive Societies'. ICIST is the flagship technical conference organized by Politeknik Negeri Semarang. This year, ICIST is co-organized by the Research Center for Community-centric Systems in Tokyo Metropolitan University, Universiti Pertahanan Nasional Malaysia, University of Medea, Politeknik Energi dan Mineral Akamigas, Politeknik Negeri Samarinda, Politeknik Negeri Bali, and Politeknik Negeri Indramayu.

The conference aims to provide a forum for research scientists, engineers, educators, and practitioners throughout the world to learn, share knowledge, publish, and disseminate the most recent innovations and developments, ideas, and applications in all fields of science, technology, economics, business, and management. The keynote addresses and invited talks at ICIST 2024 will be presented by distinguished scientists and engineers.

A unique feature of ICIST 2024 is the opportunity for authors to publish a paper in a peer-reviewed journal. ICIST 2024 offers a fast publication schedule while maintaining rigorous peer review. Papers submitted to ICIST 2024 undergo a regular ICIST 2024 and peer-reviewed journal review. ICIST 2024 received 147 submissions from 5 countries in response to our open call for papers for the conference. Out of these, the technical program committee, and the editors of the relevant journals, made the ultimate decision to select 81 articles for the technical program, which is organized into four parallel sessions.

This inspiring program would not have been possible without the enthusiastic support of our esteemed colleagues. We would like to thank the members of the technical program committee, the journal editors, and the reviewers for their professional and timely reviews of a number of papers. A special word of appreciation is extended to the members of the technical program committee who organized technical sessions to arouse intellectual curiosity. Additionally, we would like to thank the members of the organizing committee for their seamless assistance. Obviously, a successful conference would not be possible without the participants, to whom we would like to extend our sincere appreciation for presenting at the conference, sharing their thoughts, and contributing to the community.

We look forward to engaging with all of you, both onsite and virtually, as we unite in our shared aim of fostering innovation and promoting a culture of advancement and transformation.



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WELCOME REMARK

Dear ladies and gentlemen,

I warmly welcome all participants, both present in person and joining online, to the 2024 International Conference on Innovation in Science and Technology (ICIST 2024).

ICIST is the flagship conference of Politeknik Negeri Semarang. Our inaugural ICIST, a face-to-face meeting, was held in 2019. However, due to the coronavirus pandemic, we had to conduct the second and third ICISTs entirely online. This year, following the format introduced last year, marks the fifth ICIST organized in a hybrid format. Last year, ICIST's accepted articles were published in various journals. This year, we continue our collaboration with 16 journals. Papers submitted to ICIST 2024 undergo a regular ICIST 2024 and peer-reviewed journal review, and then the accepted and presented papers will be published in the journals. This will be a good platform for research scientists, engineers, educators, and practitioners throughout the world to learn, share knowledge, publish, and disseminate the most recent innovations and developments, ideas, and applications in all fields of science, technology, economics, business, and management.

On this occasion, I would like to express my gratitude to all journal editors for their outstanding support and collaboration. In addition, I would like to thank all of the organizing committee members for their hard work and coordination in making this conference a success in Bali. I would like to thank all the sponsors for being so generous and sponsoring ICIST 2024. I would also like to say welcome to Bali, the capital of the province of Bali.

I wish the ICIST 2024 tremendous success, and I do hope all of you will have an enjoyable and valuable experience at the ICIST 2024 in Bali, Indonesia.

Thank you.

Dr. Eni Dwi Wardihani, S.T., M.T
Director, Politeknik Negeri Semarang, Indonesia



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Zuliziana Suif – Universiti Pertahanan Nasional Malaysia, Malaysia





Ballroom

December 5th, 2024

Keynote Speaker 1

09.30-10.30

Prof. Naoyuki Takesue, Ph.D
Tokyo Metropolitan University, Japan

Moderator: Dr. Mohammad Adib Khairuddin

Development of interesting robotic systems that are useful / not immediately useful

Abstract:

Robots are machines that combine sensors, actuators, and computers. In many cases, robots are designed to help solve everyday problems. In my lab, we have researched and developed industrial robots that are fixed indoors, robots that move outdoors on the ground, on the water, or in the air, and robots inspired by toys. Some of these robotic systems are sometimes not immediately useful. In this talk, I would like to talk about robots that are useful in industry and everyday life, and also introduce some interesting aspects of robots that are not immediately useful.

Biography:

Naoyuki Takesue received the B.E. and M.E. degrees in mechanical and control engineering from the University of Electro-Communications, Tokyo, Japan, in 1995 and 1997, respectively, and the Ph.D. degree in mechanical engineering from Osaka University, Osaka, Japan, in 2000. From 1997 to 2000, he was a Research Fellow of the Japan Society for the Promotion of Science. From 2000 to 2003, he was a Research Associate at Osaka University. In 2003, he was an Assistant Professor at Nagoya Institute of Technology, Nagoya, Japan, where he was an Associate Professor in 2005. From 2008 to 2023, he was an Associate Professor at Tokyo Metropolitan University, Tokyo. Since 2023, he has been a Professor at Tokyo Metropolitan University, Tokyo. His current research interests include design of mechanical systems and robotic mechanisms, motion control of robotic systems, automation, and mobile robots. Prof. Takesue is a member of the Robotics Society of Japan, the Japan Society of Mechanical Engineers, the Society of Instrument and Control Engineers, and the Institute of Electrical Engineers of Japan, the Japan Society for Precision Engineering, and the IEEE Robotics & Automation Society

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	Ballroom	December 5 th , 2024
	Keynote Speaker 2	10.30 - 11.30
<p>Prof. Dr. Muhd Zu Azhan Yahya Universiti Pertahanan Nasional Malaysia, Malaysia</p>		Moderator: Dr. Prayitno

First Principles Study on Properties of Energy Storage Materials

Abstract:

Energy storage technologies have been intensively studied in particular for batteries applications. Nowadays, advances in lithium-ion battery (LIB) technology are used in most portable electronic devices and electric vehicles. However, there are increasing concerns regarding to the sustainability of lithium sources due to their limited availability and price increase. Therefore, safer and cheaper sodium-based materials are intensively studied for sodium-ion battery (SIB) applications. As with LIB technologies, there are intense activities in developing new electrode materials to increase the capacity and energy density of these emerging devices. In this presentation, the topics to be discussed include: 1) Recent development of LIB and SIB technologies. 2) Computational methods as an alternative method to study the properties of these LIB and SIB cathode materials; 3) The future directions for batteries technologies.

Keywords: Energy Storage, Lithium Ion Battery, Sodium Ion Battery, Computational Methods

Biography:

MZA YAHYA is currently a Professor of Physics (Materials Science) in the Department of Defence Science, Faculty of Defence Science & Technology, National Defence University of Malaysia, Kuala Lumpur. He received his PhD in Advanced Materials from University of Malaya, Malaysia in 2002. He has been appointed as a Fellow of the Malaysian Solid State Association (MASS) since 2010. He has published more than 250 articles in professional journals. He has also successfully supervised 28 PhD and 32 Master graduates. His research interests are related to materials for energy storage (batteries, supercapacitors, solar cells) via experimental and computational methods

December 5 th , 2024		Program			
07.45 - 08.20 WITA	Registration				
	Opening Ceremony				
08.20 - 08.30 WITA	Welcome to ICIST 2024				
08.30 - 08.40 WITA	Singing the National Anthem of Indonesia (Indonesia Raya)				
08.40 - 08.45 WITA	ICIST 2024 Report - General Chair				
08.45 - 08.55 WITA	Welcome Remark - Director of Politeknik Negeri Semarang				
08.55 - 09.00 WITA	Ceremonial Opening (Traditional Dance)				
09.00 - 09.10 WITA	ICIST 2024 Orientation - Program Chair				
09.10 - 09.15 WITA	Signing MOA & Photo Session				
09.15 - 09.30 WITA	Coffee Break				
	Main Session				
	Keynote Speech 1				
09.30 - 10.30 WITA	Prof. Naoyuki Takesue, Ph.D (Tokyo Metropolitan University, Japan)				
	Keynote Speech 2				
10.30 - 11.30 WITA	Prof. Dr. Muhd Zu Azhan Yahya (Universiti Pertahanan Nasional Malaysia, Malaysia)				
11.30 - 12.30 WITA	Lunch Break				
	Parallel Session OFFLINE				
	Parallel Session 1				
	12.30-14.00	Room 1	Room 2	Room 3	
	Parallel Session 2	Offline			
	14.00-15.15	Room 1	Room 2	ONLINE	
	Parallel Session 3	Offline			
	15.15-16.30	Room 1	Room 2		
	Parallel Session 4	Offline			
	16.30-17.45	Room 1	Room 2		
	Parallel Session 5	Offline			
	17.45-18.45	Room 1	Room 2		
12.30 - 18.45 WITA					
18.30 - 19.30 WITA	Dinner				
19.30 - 20.00 WITA	Awarding Ceremony & Closing				
December 6 th , 2024	Free Program				

PRESENTATION SESSION

=====OFFLINE=====

Parallel Session 1 -----(OFFLINE)-----December 5th, 2024			
12.30-14.00			
Room 1	Session Chair : Prayitno, PhD		
CODE	Title	First/Corresponding Author	Journal
JRM01	Development of Fins for Underwater Robots with 3D Printer and Experimental Evaluation	Bagus Yunanto	Journal of Robotics and Mechatronics, Vol. 37 No. 1 February 2025
JRM03	An Investigation Towards an Efficient Algorithm for the Automation of Stocking and Disposal Tasks in a Convenience Store Using a Robotic Arm System	Fahmi Aziz Sasono	Journal of Robotics and Mechatronics, Vol. 37 No. 1 February 2025
JRM04	Development of Fixed-Wing VTOL UAVs with Foldable Rotor Propulsion	Kaspul Anuar	Journal of Robotics and Mechatronics , Vol.37 No.2 Apr. 20, 2025
JRM05	Manipulability Analysis of Anterior and Mediolateral Dynamic Gait Stability of Young and Elderly Individuals	Hiroki Watanabe	Journal of Robotics and Mechatronics, vol. 36, no. 6, 2024.
JOIV07	Investigating P300 Response in Visual Searching of Multiple Traffic Objects During Driving	Keiichiro Inagaki	International Journal on Informatics Visualization, Vol.9 No.3 May 2025
Room 2	Session Chair : Dr. Siti Noormiza		
CODE	Title	First/Corresponding Author	Journal
SCOG01	Initial Study on the Prospect of Solid Oil Waste Utilization from X Field as a Basic Material for Road Asphalt Mixing with Marshall Test	Erdila Indriani	Scientific Contributions Oil and Gas, Vol.48 No.1 April 2025
SCOG02	Optimization of Process Design and Operating Parameters of H ₂ s Removal Unit to Reduce Lean Amine Inlet Temperature of Amine Contactor at Upstream Oil and Gas Subsidiary X	Budi Sulistiyo Nugroho	Scientific Contributions Oil and Gas, Vol.48 No.1 April 2025
SCOG03	Analysis Risk Based Inspection (Rbi) Api 581 of Pressure Safety Valve (Psv) & Absorber at Acid Gas Removal Unit	Budi Sulistiyo Nugroho	Scientific Contributions Oil and Gas, Vol.48 No.2 August 2025
SCOG04	Analysis of Injection Material Voidage Replacement Ratio Due to Gas Lift Compressor Shutdown System	Rafiska Chelsie Howitzerni	Scientific Contributions Oil and Gas, Vol.48 No.2 August 2025
SCOG05	Risk Based Inspection Analysis of Api 58i Pressure Safety Valve & Stripper at Acid Gas Removal Unit	Budi Sulistiyo Nugroho	Scientific Contributions Oil and Gas, Vol.48 No.3 December 2025

Parallel Session 2 -----(OFFLINE)-----December 5th, 2024

14.00-15.15

Room 1	Session Chair : Dr. Asepta Surya Wardhana		
CODE	Title	First/Corresponding Author	Journal
JOIV08	Prediction Analysis of Greeting Gestures Based on Recurrent Neural Networks	Angga Wahyu Wibowo	International Journal on Informatics Visualization, Vol.9 No.3 May 2025
JACIII01	Egocentric Behavior Analysis Based on Object Relationship Extraction with Graph Transfer Learning for Cognitive Rehabilitation Support	Adnan Rachmat Anom Besari	Journal of Advanced Computational Intelligence and Intelligent Informatics , Vol.29 No.1, 2025
JACIII02	Enhancing Individual Self-Efficacy Through a Self-Growing Memory AI Agent Integrated with a Diary Application	Yuchen Guo	Journal of Advanced Computational Intelligence and Intelligent Informatics, Vol.29 No.1, 2025
JESTEC09	Indonesia Food Commodity Price Prediction Information System Using Least Square to Support Smart Economy	Moh. Ali Fikri	Journal of Engineering Science and Technology
IJASEIT01	Machine Learning Classifies Data for Early Warning of Stuck Pipe Detection in Geothermal Drilling	Diyah Rosiani	International Journal on Advanced Science, Engineering and Information Technology, Vol.15 No.1, 2025
Room 2	Session Chair : Dr. Amin Suharjono		
CODE	Title	First/Corresponding Author	Journal
Polimesin01	Finite Element Analysis for Clearance and Fatigue of Wear Casing Ring Using Ansys Student Software	Susilo Handoko	Polimesin
Polimesin02	Fuzzy Logic-PLC-Based Controller for Water Treatment Simulator	Astrie Kusuma Dewi	Polimesin
Polimesin03	Design of Reliquefaction Plant to Reduce Unutilised Boil of Gas at Floating Storage Regasification Unit	M. Zaky Zaim Muhtadi	Polimesin
Polimesin04	Kinetics of Transesterification Reaction of Multifeedstock Oil into Biodiesel	Haris Numan Aulia	Polimesin
Polimesin05	Industrial Case Study for Failure Detection of Clean Water Distribution Pump Using Vibration Analysis in an Oil and Gas Training Center	Hernawan Novianto	Polimesin

Parallel Session 3------(OFFLINE)-----December 5th, 2024

15.15-16.30

Room 1	Session Chair : Dr. M. Rizal Bin Mohd Isa		
CODE	Title	First/Corresponding Author	Journal
IJIE07	Landslide Susceptibility Mapping in NDUM Campus, Kuala Lumpur, Malaysia	Jestin Jelani	International Journal of Integrated Engineering
IJIE12	Quantifying Rock Slope Stability with Kinematic and Limit Equilibrium Methods for KM29 of Karak Highway, Malaysia	Jestin Jelani	International Journal of Integrated Engineering
IJASEIT02	Thermal Comfort Quality Monitoring and Controlling Using Fuzzy Inference System Based on IoT Technology	Dwiana Hendrawati	International Journal on Advanced Science, Engineering and Information Technology, Vol.15 No.1, 2025
Room 2	Session Chair : Dr. Nur Diyana Kamarudin		
CODE	Title	First/Corresponding Author	Journal
Polimesin06	Performance of Peltier TEC12706 as A Cooling and Heating Media	Sujono	Polimesin
Polimesin07	Open-Source Modelling and Deformation Analysis of A Solar Powered Charging Station System Using FreeCAD	Kasturi Kasturi	Polimesin
Polimesin08	Cascade Flow Rate-Temperature Control System Design Based on PID Controller Using Direct Synthesis Tuning Method	Mochamad Rizky Pradana	Polimesin
Polimesin09	Buck Boost Converter Control to Accelerate Cooling in Hydrogen System Coolers	Wasis Waskito Adi	Polimesin
Polimesin10	Planning the 17 ½ Inch Cementing Path of Casing Liner with TieBack of Well 'VERNE' WILETTE' Field	Ivana Chrismendo Wohel	Polimesin
Parallel Session 4 -----(OFFLINE)-----December 5th, 2024			
16.30-17.45			
Room 1	Session Chair : Dr. M. Rizal Bin Mohd Isa		
CODE	Title	First/Corresponding Author	Journal
IJIE03	Information System Design Orifice Type Concentric Based on	Asepta Surya W	International Journal of Integrated

	Fuzzy Logic		Engineering
IJIE05	Corrosion Behaviours of Carbon Steels Coated by Graphene Epoxy in Different Solutions	Hafid Suharyadi	International Journal of Integrated Engineering
IJIE06	Smart Flow Computer: Leveraging IoT for Accurate and Efficient Gas Flow Measurement in the Oil and Gas Industry	Suka Handaja	International Journal of Integrated Engineering
IJIE08	Utilizing Fiber Reinforced Polymer (FRP) to Enhance the Flexural Capacity of Concrete Structures After Earthquakes	Nor Puji Lestari	International Journal of Integrated Engineering
IJIE13	Effect of Scour and Seismicity on the Bridge's Response	Nordila Ahmad	International Journal of Integrated Engineering

Room 2	Session Chair : Dr. Dwiana Hendrawati		
CODE	Title	First/Corresponding Author	Journal
JESTEC05	Edutainment Education for Child-Friendly School: A Constructivism Theory Perspective	Inayah Inayah	Journal of Engineering Science and Technology
JESTEC03	Simulation of Spring Water Distribution System Using EPANET	Zuliziana Suif	Journal of Engineering Science and Technology
INFOTEL04	Brain Tumor Detection Through Image Enhancement Methods and Transfer Learning Techniques	Afandi Nur Aziz Thohari	INFOTEL
IJASEIT11	Optimization of Lubricant Oil Filling and Packaging Lines: A Simulation-Based Automation Approach	M. Zaky Zaim Muhtadi	International Journal on Advanced Science, Engineering and Information Technology, Vol.15 No.1, 2025

Parallel Session 5 -----(OFFLINE)-----December 5th, 2024

17.45-18.45

Room 1	Session Chair : Dr. Endang Sulistyani		
CODE	Title	First/Corresponding Author	Journal
MATRIK02	Frugal Innovation: A Bibliometric Study of the Conceptual Foundations and Future Research Directions	Kawuryan Kawuryan Renita	MATRIK , Vol.19 No.1 2025
MATRIK04	Social Proof as a Leveraging Variable for Purchasing Decisions	Endang Sulistyani	MATRIK, Vol.19 No.1 2025
MAR01	Building Entrepreneurship Based on Green Innovation to Promote Sustainable Development: A Qualitative Study Perspective	Iwan Hermawan	Management and Accounting Review

=====ONLINE=====

Parallel Session 1 -----(ONLINE)-----December 5th, 2024			
12.30-14.15			
Room 1	Session Chair : Dr. Dwiana Hendrawati		
CODE	Title	First/Corresponding Author	Journal
JOIV01	A Low-Cost Nursing Robot with Telemedicine using ESP32 and Robot Operating System-based	Roni Apriantoro	International Journal on Informatics Visualization, Vol.9 No.2 March 2025
JOIV02	A Review of Livestock Smart Farming for Sustainable Food Security	Adriana Arul Yacob	International Journal on Informatics Visualization, Vol.9 No.2 March 2025
JOIV03	Bike Fitting System Based on Digital Image Processing on Road Bike	Tigor Hamonangan Nasution	International Journal on Informatics Visualization, Vol.9 No.2 March 2025
JOIV04	YoloV8_s, EfficientNet2_s, and CSP_Darknet_1 Comparison as Recognition Model's Backbone for Drone-Captured Images	Rinta Kridalukmana	International Journal on Informatics Visualization, Vol.9 No.2 March 2025
JOIV05	Prediction System for Mobile-Based Oil Palm Fertilization Period Recommendation	Juni N Sari	International Journal on Informatics Visualization, Vol.9 No.2 March 2025
Room 2	Session Chair : Dr. Nur Diyana Kamarudin		
CODE	Title	First/Corresponding Author	Journal
JESTEC02	Adoption of Adam Optimizer for Enhancement of Deep Learning Model in Political Security Threat Prediction	Liyana Safra Zaabar	Journal of Engineering Science and Technology
JESTEC06	Manoeuvring Simulations on the Design of Three Rudder-Shaped like (RSL) Bodies for Low Drag USV Model	Mohd Azzeri Mohd Naiem	Journal of Engineering Science and Technology
JESTEC08	Enhance Dynamic QoS Through Deep Learning: Adaptive Bandwidth Management for Network Optimization	Muhammad Fendi Osman	Journal of Engineering Science and Technology
IJASEIT08	Comparative Analysis and Exploration of 3DResNet-18 and InceptionV3-GRU with Temporal Segment Network (TSN) Framework for Laparoscopic Surgical Video Expertise Classification	Adi Wibowo	International Journal on Advanced Science, Engineering and Information Technology, Vol.15 No.1, 2025
INFOTEL01	Software Effort Coefficient Optimization Using Hybrid Bat Algorithm and Whale Optimization Algorithm	Alifa Puspaningrum	INFOTEL
INFOTEL02	A Novel Approach to Digital Image Security: Merging Cryptography and Steganography via LSB+TWO Technique	Nur Budi Nugraha	INFOTEL

Parallel Session 2 -----(ONLINE)-----December 5th, 2024

14.15-15.30

Room 1	Session Chair : Dr. Endang Sulistiyan		
CODE	Title	First/Corresponding Author	Journal
JOIV06	Ensemble Approach for Enhanced Classification of Timed Up and Go Test Movements	Yudhi Ardiyanto	International Journal on Informatics Visualization, Vol.9 No.2 March 2025
JOIV09	Comparative Analysis of Homomorphic and Morphological Filters Using Inception V3 for Thermal Facial Image Classification of Autistic Children	Melinda Melinda	International Journal on Informatics Visualization, Vol.9 No.3 May 2025
JOIV12	Performance Evaluation of RESTful Services and AMQP Protocol in Cashless Parking Payment Mobile Apps	Dimas Rizky Farrabi	International Journal on Informatics Visualization, Vol.9 No.3 May 2025
MATRIK01	The Competitiveness of National Solar Modules in Residential Market: Perspective of EPC Companies	Dwi Nurma Heitasari	MATRIK , Vol.19 No.1 2025
MATRIK03	An Inventory Management System to Improve Coverage Days and Reduce Inventory Costs for Fuel	Andian Ari Istiningrum	MATRIK, Vol.19 No.1 2025
Room 2	Session Chair : Dr. Garup Lambang Goro		
CODE	Title	First/Corresponding Author	Journal
JESTEC04	Ultrasonic Wave Technique for Converting Used Cooking Oil into Biodiesel Using Coal Lignite Catalyst	Mustafa Tafa Mus	Journal of Engineering Science and Technology
JESTEC07	Quality of Iodine Number, Volatile Matter and Yield in Making Activated Charcoal from Palm Shells Using Partial Oxidation Method at Various Air Flow Rate Variations	Firman Muhammad Siri	Journal of Engineering Science and Technology
JESTEC10	Effects of Swept Back and Twist Angle on the Use of Wing Airfoil NASA 20612 to Aerodynamic Performance	Setyo Hariyadi Suranto Putro	Journal of Engineering Science and Technology
JESTEC11	Experimental Study on the Performance of Pervious Concrete Made with Various Compositions of Recycled Concrete Aggregate	A MS Sufanir	Journal of Engineering Science and Technology
JESTEC12	Discovering Feature Selection in Sentiment Analysis for the Medical Domain Using Particle Swarm Optimization and Multi-Swarm Particle Swarm Optimization Algorithms	Nurlaila Syafira Shapie	Journal of Engineering Science and Technology
IJOG01	Assessment on Coastal Changes at Kuching Wetland National Park, Sarawak	Ainul Husna Abdul Rahman	Indonesian Journal On Geoscience, Vol. 12 No. 2 June 2025
IJOG02	Efficient Earthquake Parameter Determination Using Lightweight Architecture and Minimal Stations	Adi Wibowo	Indonesian Journal On Geoscience, Vol. 12 No. 2 June 2025

Parallel Session 3------(ONLINE)-----December 5th, 2024

15.30-17.00

Room 1	Session Chair : Prayitno, PhD		
CODE	Title	First/Corresponding Author	Journal
JOIV10	Advanced Instance Segmentation of Aeroponics Tissue Culture-Based Seeds Potatoes Based on Improved YOLOv8l-Small	Gisnaya Faridatul Avisyah	International Journal on Informatics Visualization, Vol.9 No.4 July 2025
JOIV11	Optimizing Quadrotor Stability: RBF Neural Network Control with Performance Bound for Center of Gravity Uncertainty	Mohamad Yani	International Journal on Informatics Visualization, Vol.9 No.3 May 2025
JOIV13	Deep Learning Models Performance for Classifying Dried Chili Based on Digital Image Analysis	Tri Raharjo Yudiantoro	International Journal on Informatics Visualization, Vol.9 No.4 July 2025
IJIE01	Optimizing Solar Panel Cleaning with Kalman Filter-Enhanced Mobile Robotics	Hendi Purnata	International Journal of Integrated Engineering
IJIE02	An Experimental Evaluation of the Effects of Relative Draft and Centre of Gravity Position on the Performance Wave Energy Converter Performance	Noh Zainal Abidin	International Journal of Integrated Engineering
JRM02	Toilet Floor Trash Detection System for Unidentified Solid Waste	Rama Okta Wiyagi	Journal of Robotics and Mechatronics, Vol. 36 No. 6 December 2024
INFOTEL03	Interpretation of Multi Sensor Measurement Results Using Fuzzy Membership Function for Landslide Early Warning System	Erna Alimudin	INFOTEL
Room 2	Session Chair : Dr. Siti Noormiza		
CODE	Title	First/Corresponding Author	Journal
IJIE04	The Effect of Mass Fraction of Rice Straw Fiber on the Mechanical Properties and Water Absorption of Cassava Starch Biocomposite	Robertoes Koekoeh Koentjoro Wibowo	International Journal of Integrated Engineering
IJIE09	Comparison of Disaster Risk Assessment Standardization of Landslide Between Regulation of Ministry of Public Works Indonesia and Slope Assessment System Malaysia	Muhammad Mukhlisin	International Journal of Integrated Engineering
IJIE10	Inverse-Dash Rectangular Slot 2x4 Array 5.8 GHz Antenna for Multiple Access Integration of IoT Systems and Terrestrial Satellite Communication Networks	Irfan Mujahidin	International Journal of Integrated Engineering
IJASEIT09	Synchronization of Data Transmission Between Edge and Cloud Network in IoT-Based Hydroponic Systems	Eni Dwi Wardihani	International Journal on Advanced Science, Engineering and Information Technology, Vol.15 No.1, 2025
IJASEIT10	Asymmetrical 4x2 Array Microstrip Antenna Using Glass Fiber-Ramie-Alumina-Carbon Composite Substrate for 5G Mobile Communication	Irfan Mujahidin	International Journal on Advanced Science, Engineering and Information Technology, Vol.15 No.1,

Organizer :



Co - Organizers :



			2025
EMITTER01	Early Detection of Ball Bearing Faults Using the Decision Tree Method	Robi Sulaiman	EMITTER International Journal of Engineering Technology
Parallel Session 4 -----(ONLINE)-----December 5th, 2024			
17.00-18.30			
Room 1	Session Chair : Dr. Asepta Surya Wardhana		
CODE	Title	First/Corresponding Author	Journal
IJASEIT03	Human Detection System Using Machine Learning to Calculate Crowd Potential	Eni Dwi Wardihani	International Journal on Advanced Science, Engineering and Information Technology, Vol.15 No.2, 2025
IJASEIT04	Evaluation Machine Learning Model for Optimum Livestock Environment Prediction in Smart Farming Application to Enhance Food Security	Emmerich Wong Hing Yip	International Journal on Advanced Science, Engineering and Information Technology, Vol.15 No.1, 2025
IJASEIT05	Identification of Essential Oil Components from Rose Flower with High Pulsed Electric Field (HPEF) Treatment Using Water Distillation Method	Budi Hariono	International Journal on Advanced Science, Engineering and Information Technology, Vol.15 No.1, 2025
IJASEIT06	Soil Permeability Tank Testing on Landslide Early Warning System	Muhammad Mukhlisin	International Journal on Advanced Science, Engineering and Information Technology, Vol.15 No.1, 2025
IJASEIT07	Comparative Evaluation of Machine Learning Models for Rice Seed Quality Identification on the Android Platform	Feny Rahmasari	International Journal on Advanced Science, Engineering and Information Technology, Vol.15 No.2, 2025
JESTEC01	Laminar Burning Speed and Flame Height of Premixed Pertamax-Avgas Blends with Ethanol	Mahros Darsin	Journal of Engineering Science and Technology

CONFERENCE INFORMATION

Oral Presentation

Offline: Please go into the session room at least 15 minutes before the session starts and identify yourself to the session chair. Present your work for 7 minutes and each presentation will be followed by a real-time Q&A session.

Online: All oral papers registered online will be presented via Zoom at the time indicated in the program. Please enter the online zoom meeting room 15 minutes before the session starts. Each presenter shall use the provided ICIST virtual background during the presentation. During your scheduled session time, you will be required to be present to answer Questions from attendees. All oral sessions will follow a similar structure to how they are held in a typical physical conference format.

- 1) The Session Chair will introduce each presenter
- 2) The Conference organizers will play the pre-recorded presentation (10 minutes maximum) for the audience
- 3) Once the presentation has concluded, the Session Chair will facilitate a live Q&A period (5 minutes maximum) with the audience, so please do not leave the meeting room until the end of the session.
- 4) Please ensure each presenter fill in the attendance form. The link will be shared at the end of each session.
- 5) Process repeats for each subsequent paper in the session.

For our convenience in moving participants to the breakout room, please use the following name format : **PaperID_RoomNo_Name**.

Time assignment including discussion is as follow

Keynote : 45 minutes (talk), 15 minutes (Q&A)

Invited : 30 minutes (talk), 10 minutes (Q&A)

Lunch

Lunch will be provided to all participants (offline).

Location : Free Function Area

Time : December 5, 11.30-12.30



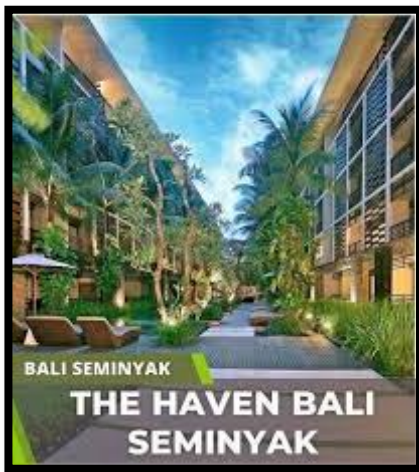
VENUE AND ACCOMMODATION

THE HAVEN Bali Seminyak

Jl. Raya Seminyak No.500, Bali, Indonesia

The conference venue THE HAVEN Bali Seminyak offers Special Rates for ICIST 2024 participant in different categories of rooms (Deluxe, Executive Club, Executive Suite). Ideally situated on Sunset Road Boulevard in the trendy Seminyak area in Bali. Sense Sunset Hotel Seminyak is the perfect choice for leisure travelers, business travelers and corporate meetings.

Website : <https://phm-hotels.com/hotel/HVNBSM>



Organizer :



Co - Organizers :

