

Conference Day #0 – Wednesday, 20 August 2025	
Time	Activity
13:00 - 17:00	Registration
17:30 - 19:30	Welcoming Dinner

Conference Day #1 – Thursday, 21 August 2025		
Time	Room A: Regular Track	Room B: Special Track on Satellite
7:30 - 8:00	Registration	
8:00 - 8:30	Opening Ceremony Opening speech by the Minister of Communication and Digitalization, Meutya Hafid Opening speech by the Governor of Bali, Dr Wayan Koster Opening Remarks by the Rector of Udayana University, Prof I Ketut Sudarsana	
8:30 - 10:15	Plenary Sessions (2 Keynote Speakers) Professor Josaphat Tetuko Sri Sumantyo (Chiba University, Japan) Dr Meiditomo Sutyarjoko (South East Asia Satellite and Space Association, Indonesia) Moderator: Wicak Soegijoko (onsite) and Meiditomo Sutyarjoko (online)	
10:15 - 10:30	Coffee Break	
	Session Chair: Session Co-Chair:	Session Chair: Wicak Soegijoko Session Co-Chair: Mona Batubara
10:30 - 10:50	The effect of implementing the PID auto-tuning control method on the stability of motion in the arm prosthesis prototype <i>I Wayan Widhiada</i>	Geospatial Intelligence from Space: Supporting National Infrastructure and Urban Planning <i>Meiditomo Sutyarjoko, Wicak Soegijoko, Ajie Nayaka Nikichio</i> Presenter: Wicak Soegijoko (onsite)
10:50 - 11:10	Design of a Control Board for a Motor-Driven Flapping Wing Micro Air Vehicle <i>Changyong Oh</i>	Telecommunications and Satellite Synergy: Expanding Connectivity and Disaster Resilience <i>Omar Isnawan, Mohammad Ridwan Effendi, Agung Harsoyo, Herlan Wijanarko, Meiditomo Sutyarjoko</i> Presenter: Omar Isnawan (online)
11:10 - 11:30	Design and demonstration of a high-speed aquatic swimmer using tail-beat propulsion <i>Nguyen Khanh</i>	Satellite-Based Crop Monitoring: Reducing Uncertainty in Agricultural Lending and Insurance <i>Mohammad Ridwan Effendi, Meiditomo Sutyarjoko, Wicak Soegijoko, Prawitasari Nur Lathifa</i> Presenter: Wicak Soegijoko (onsite)

Conference Day #1 – Thursday, 21 August 2025		
Time	Room A: Regular Track	Room B: Special Track on Satellite
11:30 - 11:50	Takeoff characteristics of flapping wings under the ultra-low air density and low gravity <i>Giheon Ha</i>	Flood and Drought Analytics from Space: Transforming Insurance Claims and Payouts <i>Mohammad Ridwan Effendi, Meiditomo Sutyarjoko, Wicak Soegijoko</i> Presenter: Mohammad Ridwan Effendi (online)
11:50 - 12:10	Design PD Control System for Motor Direct-Driven Flapping Wing Micro Aerial Vehicle <i>Seungik Choi</i>	Revolutionizing Risk Assessment: Satellite Data for the Finance and Insurance Sectors in Indonesia <i>Meiditomo Sutyarjoko, Wicak Soegijoko, Clint Gunawijaya</i> Presenter: Clint Gunawijaya (onsite)
12:10 - 13:30	Lunch Break	
	Session Chair: Session Co-Chair:	Session Chair: Yulrama Indra Session Co-Chair: Muhardi
13:30 - 13:50	Longitudinal Surge and Pitch Control in a Thunniform Underwater Robot <i>Daewook Kim</i>	Bridging the Digital Divide in Rural Areas with Equitable Space-Based Solutions <i>Hermanudin, Wicak Soegijoko, Agung Harsoyo, Meiditomo Sutyarjoko, Adhi Murbini</i> Presenter: Hermanudin (online)
13:50 - 14:10	Vacuum-Chamber Type Capacitive Micro Pressure Sensors Using CMOS-MEMS <i>Chandrashekhar Tasupalli</i>	Strengthening Regional Collaboration for Space Development in Southeast Asia <i>Muhardi, Wicak Soegijoko, Agung Harsoyo, Agus Budiyo</i> Presenter: Muhardi (onsite)
14:10 - 14:30	Design and Integration of a Compact Embedded Vision for Humanoid Robot Head Teleoperated <i>Nova Erika Simbolon</i>	Building a Unified Voice for Southeast Asia in Global Space Governance <i>Yulrama Indra, Meiditomo Sutyarjoko, Agung Harsoyo, Agus Budiyo</i> Presenter: Yulrama Indra (onsite)
14:30 - 14:50	Transformer-Based Multiagent Drone Framework for Disaster Response and Dengue Risk Mitigation <i>Gaku MASUDA</i>	Ensuring Transparency and Accountability in the Use of Satellite Data <i>Yulrama Indra, Meiditomo Sutyarjoko</i> Presenter: Yulrama Indra (onsite)
14:50 - 15:10	Optimization of LELA's Wing by Utilizing Adjoint Method <i>Eugene Timothy Clay</i>	Creating Opportunities for Youth and Marginalized Groups in the Space Industry <i>Wicak Soegijoko, Agung Harsoyo, Clint Gunawijaya</i> Presenter: Clint Gunawijaya (onsite)
15:10 - 15:30	Coffee Break	

Conference Day #1 – Thursday, 21 August 2025		
Time	Room A: Regular Track	Room B: Special Track on Satellite
	Session Chair: Session Co-Chair:	Session Chair: Ahmad Firdaus Session Co-Chair: Wicak Soegijoko
15:30 - 15:50	Performance Evaluation of UAVs Using Industrial Robot Arm: Safe Flight Data Measurement in Indoor Environment <i>Kazuo Watanabe</i>	High-Resolution Satellite Imagery for National Land and Marine Mapping Initiatives <i>Muhardi, Meiditomo Sutyarjoko, Ahmad Firdaus, Nico Prajogo</i> Presenter: Muhardi (onsite)
16:10 - 16:30	Simulation of Effects of Control Surface Deflection on Aerodynamic loads and Deformation of Flexible UAV Wing Using Two-Way Fluid Structure Interaction <i>Dwiki Ananda Classirio, Mochamad Agoes Moelyadi, Ema Amalia</i>	Monitoring Urban Growth and Land Use Change in Cities from Space <i>Wicak Soegijoko, Meiditomo Sutyarjoko, Ahmad Firdaus, Nico Prajogo</i> Presenter: Wicak Soegijoko (onsite)
16:30 - 16:50	Aerodynamics Modeling and Hovering State Analysis for a Dual Propulsion VTOL UAV <i>Sho Yoshida</i>	Protecting Indonesia's Blue Economy with Satellite Data for Coastal and Marine Surveillance <i>Meiditomo Sutyarjoko, Wicak Soegijoko, Ahmad Firdaus, Nico Prajogo</i> Presenter: Meiditomo Sutyarjoko (online)
16:50 - 17:10	Control of Fully-actuated Multicopter <i>Masafumi Miwa</i>	Satellite Solutions for Coastal Zone Management and Marine Resource Protection <i>Wicak Soegijoko, Iwan Qodar Himawan, Ahmad Firdaus, Nico Prajogo</i> Presenter: Ahmad Firdaus (onsite)
17:10 - 18:00	End of Day 1 Sessions & Free Time	

Conference Day #2 – Friday, 22 August 2025		
Time	Room A: Special Session on Converging Intelligence	Room B: Special Session on Industrial Automation and Simulation Technology
8:00 - 8:15	Registration and Welcome Coffee	
8:15 - 8:30	Day 1 Recap and Agenda Overview	
8:30 - 10:15	Plenary Sessions (2 Keynote Speakers) Dr Ahmad Firdaus (Ocean Engineering, Institut Teknologi Bandung, Indonesia) Dr Ulf Richter (Richterion Consulting, Germany)	
10:15 - 10:30	Coffee Break	
	Session Chair:	Session Chair:
	Session Co-Chair:	Session Co-Chair:
10:30 - 10:50	Investigation of an unmanned aerial vehicle with a tilting rotor mechanism in transition mode <i>Dinh Tuan-Anh HOANG</i>	Numerical Schemes for Stabilisation, A Case Study of The Flow in Natural Dryer <i>I Gusti Bagus Wijaya Kusuma</i>
10:50 - 11:10	Performance Analysis of Vibration Noise in Low-Cost MEMS IMU Sensors <i>Jeong-Hwan Kim</i>	Design of Plantwide Control for the Naptha Hydrotreater (NHT) Unit in Refinery Processes Using Model Predictive Control to Address Production Flow Rate Disturbances <i>Totok Ruki Biyanto</i>
11:10 - 11:30	Generative AI Assisted of Three-Layers Phantom Model for Current Density Impedance Imaging <i>Agah Garnadi</i>	Model-Based Design and Testing of Autonomous Vehicle Dynamics Using Digital Twin Simulation <i>Dhanasekaran Pachiyannan, Raguvaran S, and S. Ilavarasi</i>
11:30 - 11:50	Design and build an automatic can pressing machine <i>Ivan Adriansyah</i>	Cloud-Connected Digital Twin Environment for Remote Monitoring and Fault Injection in Mechatronic Systems <i>Hemawathi Somasundaram, T.Padmapriya, Vishnu Kumar Kaliappan, and Agus Budiyo</i>
11:50 - 12:10	Development of an Unmanned Inspection Device for Fire Alarm Manual Call Points <i>Cong Toai Truong</i>	Multi-Vehicle HIL Simulation Platform for Swarm UAV Mission Testing and Optimization <i>S. Gnanamurthy, Dharani Jaganathan, Narean Prasath A. K., Vishnu Kumar Kaliappan</i>
12:10 - 13:30	Lunch Break	
	Session Chair:	Session Chair:
	Session Co-Chair:	Session Co-Chair:

Conference Day #2 – Friday, 22 August 2025		
Time	Room A: Special Session on Converging Intelligence	Room B: Special Session on Industrial Automation and Simulation Technology
13:30 - 13:50	A Critical Review of Deep Reinforcement Learning Methods in Autonomous Vehicle <i>Muhammad Irham Agil Kurniawan</i>	Reinforcement Learning-Based Controller Testing in a HIL UAV Test Environment <i>Dharani Jaganathan, Vishnu Kumar Kaliappan, and S. Ilavarasi</i>
13:50 - 14:10	Three-Phase Quasi-Newton & Interior-Point IK for 7-DOF Humanoid Manipulators <i>Sigit Dani Perkasa</i>	Hybrid AI-Digital Twin Platform for Real-Time Fault Diagnosis in Intelligent Mobility Systems <i>B. Suresh Kumar, Manikanthan S. V., and M. Saravanan</i>
14:10 - 14:30	Model Predictive Cruise Control for EV under Dynamic Driving Conditions <i>Sigit Dani Perkasa</i>	Drone Intelligence & Surveillance for Patrol and Search and Rescue Operations <i>Ivan</i>
14:30 - 14:50	Static Structural Analysis and Load Optimization of Anthropometric Dual 7-DOF Robotic Arms using FEA <i>Irham Kunhadi Nurcahyo</i>	Detection and Early Warning System on Ships Based on the Internet of Thing Using the Fuzzy Method <i>Nurhadi Siswantoro, M. Badrus Zaman, Indra Ranu Kusuma, M Fahmi Auliarahman</i>
14:50 - 15:10	Comparative Analysis of Single-Ended and Differential Configurations in Analog Front End Circuits for NTC Sensor Signal Acquisition under Electromagnetic Interference <i>Farhan Hafitdh</i>	Sustainable Rail Modernization: Predictive Maintenance and Remaining Life Prediction in Legacy Train Upgrades <i>Achmad Syaifudin, Reyhan Khansa Alpha Adista, Dika Andini Suryandari, Hendro Nurhadi</i>
15:10 - 15:30	Coffee Break	
	Session Chair: Session Co-Chair:	Session Chair: Session Co-Chair:
15:30 - 15:50	Structural Design and Torsional Rigidity Analysis of a Modular Low-Floor Chassis for EV Shuttles <i>Anandya Arizki</i>	Optimization of Maintenance Intervals and Integration of Reliability-Availability Analysis for Improving Nitrogen Plant Efficiency <i>Hendra Nurhadi</i>
16:10 - 16:30	Humanizing Critical Care Biomedical Technology: Emotional Design Principles in ICU Patient Monitors <i>Dinda Punjung Puji Safitri</i>	ISIUS Committee Meeting
16:30 - 16:50	Digital Filters and Morphological Detection Algorithms for Identification of PQRST Wave Complex from Raw Electrocardiogram	

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Time	Room A: Special Session on Converging Intelligence	Room B: Special Session on Industrial Automation and Simulation Technology
	Tisa Anggraini	
16:50 - 17:10	Comparative Analysis of Autonomous Electric Shuttle from Existing Designs Based on Visual Design Principles Mhd Arifin	
17:10 - 18:00	End of Day 2 Sessions & Free Time	
19.00- 21.00	Farewell Dinner and Closing Ceremony Announcement of Best Paper Award Introduction of the next ICIUS2026 Venue	

Poster Session	
Brain Computer Interface	Sagea USV Tambora ROV
