



ICSET2022 Program Guide

**12th International Conference
on System Engineering and Technology**

October 3rd, 2022



General Information



- Zoom Link: <https://bit.ly/icset2022>
- Committee uses Zoom for Plenary and Parallel Sessions
- Please rename your display name before joining the event or while in the waiting room:
 - Presenting Author/Co-Author:
 - SessionRoom PaperID LastName (Institution)
 - Non-presenting Author/Co-Author:
 - FirstName Lastname (Institution)

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Participant Guidelines



- You should enter the virtual room using the given Room Link, Meeting ID and Passcode.
- You are requested not to share meeting details with anyone else.
- Please keep your microphone muted and turn off the video when you are not presenting. Turn on your microphone when you are answering question.
- Each presenter has 15 minutes of presentation and 5 minutes of QnA. Should there are some trouble with connection, the pre-recorded video will be played by Host.
- A photo session will end each session. Please turn on your video during this session. (Host/Session Chair will guide you).

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Plenary Session



Time	Activity
08:00 – 08:10	Opening & Opening Speech
08:10 – 09:00	1 st Keynote Speech: Prof. Bernardo Nugroho Yahya
09:05 – 10:00	2 nd Keynote Speech: Prof. Rini Akmeliawati
10:00 – 10:30	Coffee Break (Short Break)
10:30 – 12:30	Technical Sessions A (Breakout Rooms: 1 & 2)
12:30 – 13:30	Lunch Break
13:30 – 15:50	Technical Sessions B (Breakout Rooms: 1 & 2)

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Technical Sessions (by Paper ID)



A1 (10:30)	A2 (10:30)	B1 (13:30)	B2 (13:30)
9799	5204	1146	3730
4091	7245	1876	4118
3118	7515	1957	3045
0749	7693	0522	7407
4380	8371	9288	7928
5935	6375	6161	8868
		9073	

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Technical Session A1 (10:30-12:30, Breakroom 1)



ID	Authors	Title
9799	Muhammad Ogin Hasanuddin, Reihan Augeetiansyah, Gotawa Aryo Prakoso and Beni Rio Hermanto	Design and Implementation of IMU, BLE Proximity, and GPS-Based Theft Detection System
4091	Muhammad Ogin Hasanuddin, Andaru Purwarangga Arham, Gotawa Aryo Prakoso and Beni Rio Hermanto	Implementation of Progressive Web App-Based Applications for Vehicle Tracking Systems
3118	Endah Sudarmilah , Azie Melasari, Devi Afriyantari Puspa Putri, Wiwien Dinar Pratisti and Fatah Yasin Irsyadi	Gamification of Animal Recognition Learning for Children with Deaf in Elementary School Using Dance Pad Media
749	Feri Hidayatullah Firmansyah , Intan Permata Sari, Dian Rinjani and Rofiatus Sholikah	Design-Build Multimedia Braille Touch Apps for the Visually Impaired
4380	Asep Trisna Setiawan , Rahadian Yusuf and Ary Setijadi Prihatmanto	Design and Development of a Daily Recording System for Vocational High School Field Work Practice Participants
5935	Liya Yuni Astutik and Rahadian Yusuf	Performance Study of LoRa IoT Technology

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Technical Session A2 (10:30-12:30, Breakroom 2)



ID	Authors	Title
5204	Dimitri Mahayana, Elbert Shan and Muhammad Fadhl Abbas	Deep Reinforcement Learning to Automate Cryptocurrency Trading
7245	Irfan Tito Kurniawan and Bambang Riyanto Trilaksono	Improving Radar-Camera Fusion-based 3D Object Detection for Autonomous Vehicles
7515	Dimitri Mahayana, Shafa Amarsya Madyaratri and Muhammad Fadhl Abbas	Predicting Price Movement of the BTCUSDT Pair Using LightGBM Classification Modeling for Cryptocurrency Trading
7693	Adi Novitarini Putri , Carmadi Machbub, Dimitri Mahayana and Egi M. Idris Hidayat	Linear Quadratic Gaussian using Kalman Network and Reinforcement Learning for Discrete-Time System
8371	Mohamad Taib Miskon , Mohd Hezri Fazalul Rahiman and Mohd Nasir Taib	Evaluation of Fuzzy PID controller design for coffee roasting temperature regulation
6375	Azlan Salim, Ihsan Mohd Yassin , Mohd Khairil Adzhar Mahmood, Zuhani Ismail Khan, Megat Syahirul Amin Megat Ali, Khairul Khaizi Mohd Shariff, Fairul Nazmie Osman, Adizul Ahmad, Farzad Eskandari	ECOC-SVM Classification of Coffee Roast Levels based on MNDS-Parameters

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Technical Session B1 (13:30-15:50, Breakroom 1)



ID	Authors	Title
1146	Dhimas Bintang Kusumawardhana, Bambang Riyanto Trilaksono and Harits Abdurrohman	Panoptic Segmentation Datasets for Rail-based Autonomous Vehicle Under Mixed-traffic Scenario
1876	Beatrice Connie Majang, Norliza Zaini and Lucyantie Mazalan	Rainfall Nowcasting based on Satellite Images using Convolutional Long-Short Term Memory
1957	Muhammad Ogin Hasanuddin, Hafizha Novianingrum and Eniman Yunus Syamsuddin	Design and Implementation of Drowsiness Detection System Based on Standard Deviation of Lateral Position
522	Hanis Nasuha Amer, Mohd Fuad Abdul Latip and Norliza Zaini	Modeling Domestic Solar Generation Profile by Using Elbow and K-Means Clustering Techniques
9288	Andhika Rahadian and Rahadian Yusuf	Online Learning Facial Expression Detection using Simplified AlexNet Deep Learning Architecture: Image Data Samples Comparison Experiment
6161	Sharifah Amirah Fadhilah Syed Omar, Norliza Zaini, Lucyantie Mazalan and Mohd Saufy Rohmad	Chicken Tracking And Tagging In Smart Coop Application
9073	Nur Sabrina Azli Murzami, Mohd Fuad Abdul Latip and Norliza Zaini	Developing Industrial Energy Systems Towards Producing Energy Consumption Profiles Using K-Means Classifiers in Power BI and Python

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Technical Session B2 (13:30-15:30, Breakroom 2)



ID	Authors	Title
3730	Nazirah Md. Tarmizi , Nur Zakira Ain Zamrun, Mohd Haikal Faizulazmi, Mohd Adly Rosli, Ashraf Abdullah, and Abd Manan Samad	An Assessment of Method for Sedimentation Area Detection at Kuala Perlis Using Landsat 8 OLI within Year 2019 to 2021
4118	Dede Kurniadi , Fitri Nuraeni, Nia Abania, Leni Fitriani, Asri Mulyani and Yoga Handoko Agustin	Scholarship Recipients Prediction Model using k-Nearest Neighbor Algorithm and Synthetic Minority Over-sampling Technique
3045	Yuslinda Wati Mohamad Yusof , Murizah Kassim and Noor Aniq Noor Azlan	Design and Analysis of IoT-based Aquarium Monitoring System for Guppy Fish Habitats
7407	Rizal Dwi Prayogo and Siti Amatullah Karimah	Hybrid Feature Selection with K-Nearest Neighbors for Optimal Heart Failure Detection
7928	Poppy Luscovius Purba and Carmadi Machbub	Template-Based Supervised Deep Homography Estimation Based on SqueezeNet
8868	Panji Setiawan and Rahadian Yusuf	IoT Device Control with Offline Automatic Speech Recognition on Edge Device

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