PARALLEL SESSIONS

Room   : IEIT1
Date/Time.   : Thursday, 12th September 2024, 13:00-14:30
Host   : -

No.	Paper Id	Title	Topic	Authors
1	1571048428	Development of Digital PI-MRAC on Eight Bit Microcontroller for DC-DC Boost Converter	Components, Circuits, Devices & Systems; Robotics & Control Systems	Sidik Nurcahyo; Hadi Suyono; Rini Nur Hasanah; Muhammad Aziz Muslim
2	1571040749	Implementation of an IoT-Based High Efficiency and Low Maintenance Lettuce Hydroponic System	Computing & Processing (Hardware/Software)	Barra Asyqar Rafi; Moechammad Sarosa; Arwin Datumaya Wahyudi Sumari
3	1571040896	Clustering of Hoaxes on Microblogs Based on User-Based Features as an Intervention for Hoax Dissemination	Computing & Processing (Hardware/Software)	Alwy; Rakhmat Arianto; Rosa Andrie Asmara; Deddy Kusbianto Purwokoaji; Rudy Ariyanto; Arwin Datumaya Wahyudi Sumari
4	1571048866	Advanced Predictive Analytics for Agricultural Weather Forecasting Using Machine Learning	Computing & Processing (Hardware/Software)	Vivi Nur Wijayaningrum; Noprianto Noprianto; Mamluatul Hani'ah; Vipkas Al Hadid Firdaus
5	1571048795	Classification of Damage to Car Tires Using Mobile-Based Deep Learning	Computing & Processing (Hardware/Software)	Septian Enggar Sukmana; Cahya Rahmad; Muhammad Shulhan Khairy; Rudy Ariyanto; Ramona Andhani
6	1571048705	Enhancing Air Temperature Prediction Using Genetic Algorithm-Based Feature Selection and Backpropagation	Computing & Processing (Hardware/Software)	Anjani Dwilestari; Vivi Nur Wijayaningrum; Annisa Puspa Kirana; Mamluatul Hani'ah; Noprianto Noprianto; Vipkas Al Hadid Firdaus
7	1571048757	Efficient Multi-Class Wind Speed Prediction Through Genetic Algorithm and Multi-Layer Perceptron Integration	Computing & Processing (Hardware/Software)	Siti Aisyah; Vivi Nur Wijayaningrum; Mamluatul Hani'ah; Noprianto Noprianto; Vipkas Al Hadid Firdaus
8	1571048760	Improving Backpropagation Performance for Air Humidity Prediction Using Genetic Algorithm-Based Feature Subset Selection	Computing & Processing (Hardware/Software)	Deatrisya Mirela Harahap; Vivi Nur Wijayaningrum; Candra Bella Vista; Mamluatul Hani'ah; Vipkas Al Hadid Firdaus; Noprianto Noprianto
9	1571048771	Leveraging Genetic Algorithm-Optimized Isolation Forest for Anomaly Detection in Compressor Machines	Computing & Processing (Hardware/Software)	Mochammad Hairullah; Vivi Nur Wijayaningrum; Muhammad Afif Hendrawan; Vipkas Al Hadid Firdaus; Noprianto Noprianto; Mamluatul Hani'ah
10	1571048790	Reinforcement Learning for AI NPC Literacy Educational Game	Computing & Processing (Hardware/Software)	Septian Enggar Sukmana; Muhammad Shulhan Khairy; M. Hasyim Ratsanjani; Cahya Rahmad; Maskur Maskur; Muhammad Afada Nur Saiva

PARALLEL SESSIONS

Room : IEIT2

Date/Time. : Thursday, 12th September 2024, 13:00-14:30

Host : -

No.	Paper Id	Title	Topic	Authors
1	1571044617	Cyclic Leader-Follower Quadrotor Formation Control with Squared Fiducial Marker Guides	Robotics & Control Systems	Giga Verian Pratama; Estiyanti Ekawati; Faqihza Mukhlish
2	1571048791	Efficient Employee Attendance System Integrating RFID and Android-Based Face Recognition with Liveness Detection	Computing & Processing (Hardware/Software)	Yudas Malabi; Mamluatul Hani'ah; Noprianto Noprianto; Vivi Nur Wijayaningrum; Vipkas Al Hadid Firdaus; Afrizal Himawan
3	1571048256	Assessment of Tensile Strength of Natural Ester Oil with Comparison of Oven-Dried Bottle Method and Aging Test Chamber	Components, Circuits, Devices & Systems	Rohmanita Duanaputri; Rahman Azis Prasojo; Muhammad Fahmi Hakim; Galuh Prawestri Citra Handani; Wita Astuti; Geri Widianto; Rael Handy Gallant; Gugi Tito Anila Razaan
4	1571049153	Implementation of YOLO V5 Integrated on Jetson Nano for Autonomous Underwater Vehicle Prototype to Overcome Pollution in Aquatic Areas	Computing & Processing (Hardware/Software); Robotics & Control Systems	Theorilus Pardede; Oditya Andalas Putra; J. Widodo Wiji Saputra; Mahesa Anam Saputra; Dyah Lestari; Siti Sendari; Soraya Mustika; Triyanna Widiyaningtyas; Yogi D. Mahandi; Ilham Ari Elbaith Zaeni
5	1571065752	Analysis of Experimental Log Data on Pseudolearn in Pseudo-Code Algorithm Learning	Computing & Processing (Hardware/Software)	Vivin Ayu Lestari; Banni Satria Andoko; Moch Zawaruddin Abdullah; Deasy Sandhya Ikawati; Muhammad Afrizal Hamimudin
6	1571038783	BLDC Servo Motor System with Gradient and Ratio Method to Increase Extruder Movement Speed on 3D Printing	Components, Circuits, Devices & Systems	Budhy Setiawan; Indrazno Siradjuddin; Ratih Luthfiya Dewi Fashihah; Resti Dyah Ayu Retno Palupi; Omer Sabri Elyas Ageed
7	1571040809	Real Time Tobacco Leaf Classification Machine Using the Computer Vision with YOLO Approach on Jetson Nano	Robotics & Control Systems	David F Putradi; Budhy Setiawan; Arwin Datumaya Wahyudi Sumari
8	1571047982	Enhancing Aspect-Based Sentiment Analysis for Radio Station Public Opinion: Evaluating Preprocessing Strategies and Imbalanced Data Handling	Computing & Processing (Hardware/Software)	Imam Fahrur Rozi; Rakhmat Arianto; Ahmadi Ananta; Dika Rizky Yunianto; Shintya Rahmawati; Krismawati Krismawati
9	1571048830	Detection and Counting of Grape Leaves Using YOLOv8 via TFLite on Mobile Applications	General Topics for Engineers (Math, Science & Engineering); Computing & Processing (Hardware/Software)	Agil Evan; Moechammad Sarosa; Rosa Andrie Asmara; Mila Kusumawardani; Dimas F Al Riza; Yunia Mulyani Azis
10	1571065743	Design and Build a Real-Time Germany Translation System Based on the Internet of Things Using MFCC and CNN Feature Extraction	Computing & Processing (Hardware/Software)	Rizky Ardiansyah; Rieke Adriati Wijayanti; Berliana Bastiar

PARALLEL SESSIONS

Room   : IEIT3

Date/Time.   : Thursday, 12th September 2024, 13:00-14:30

Host   : -

No.	Paper Id	Title	Topic	Authors
1	1571047552	Concrete and Pavement Cracks Detection Leveraging Vision Transformer (ViT) Model	Computing & Processing (Hardware/Software)	Faizan Zaman; Zhigang Xu; Adil Hussain; Tariq Tariq; Ayesha Aslam; Muhammad Abdullahi Rabiu
2	1571050427	Brain Tumour Segmentation in MRI Data Using Gray Level Co-Occurrence Matrix	Computing & Processing (Hardware/Software)	Muhammad Zidni Al Ghifari; Tri Harsono; Riyanto Sigit; Widiana Ferriastuti; Fierly Hayati
3	1571047920	Integration of Solar Photovoltaic System and Water Filter: A Sustainable Energy Solution for Clean Water Supply	Components, Circuits, Devices & Systems; General Topics for Engineers (Math,Science & Engineering)	Khakam Maruf; Rizal Justian Setiawan; Darmono; Assadullah Al Kafah Alam; Nur Azizah; Nur Evirda Khosyiati
4	1571048886	Design and Manufacture of Portable Seawater Filter Using Reverse Osmosis Integrated Solar Photovoltaic to Fulfill Drinking Water for Fishermen	Components, Circuits, Devices & Systems	Khakam Maruf; Yanuar Agung Fadlullah; Sahid Ramandhani; Rizal Justian Setiawan; Bagus Putra Setiyawan; Assadullah Al Kafah Alam
5	1571043125	Optimizing Rice Production Forecasts with Combined Time Series Models	Computing & Processing (Hardware/Software)	Mega Silfiani; Primadina Hasanah; Irma Fitria
6	1571046032	A Comparative Analysis of Hybrid Approach for Rice Production Forecasting	Computing & Processing (Hardware/Software)	Mega Silfiani; Riki Herliansyah; Diana Nurlaily
7	1571043126	Design and Development of a Pet Rehabilitation Cage Based on Instrumentation Measurement and Internet of Things	Robotics & Control Systems	Alfinda Aurell Salsabila; Ahmad Fauzan Adziimaa
8	1571048730	Website-Based Air Quality Monitoring Design (CO, CO_2, NO_2) with Smartphone Push Notification	Robotics & Control Systems	Ika Devi Safitri; Ahmad Fauzan Adziimaa

PARALLEL SESSIONS

Room   : IEIT4

Date/Time.   : Thursday, 12th September 2024, 13:00-14:30

Host   : -

No.	Paper Id	Title	Topic	Authors
1	1571048794	Improving YOLOv8 Performance Using Hyperparameter Optimization with Gray Wolf Optimizer to Detect Acute Lymphoblastic Leukemia	Computing & Processing (Hardware/Software)	Tanzilal Mustaqim; Chastine Fatichah; Nanik Suciati; Nathalya Dwi Kartika Sari
2	1571042935	Control System Modification of the Robodrill Machine with Loading and Unloading Automatic Systems to Increase Production Capacity in the Automotive Manufacturing Industry	Robotics & Control Systems	Syahril Ardi; Muhammad Hidayat; Nadya Zahra; Agus Ponco; Heru Suprapto
3	1571050447	Detection System for Lung Tumors Based on CT Scan Images Using Cellular Automata	Computing & Processing (Hardware/Software)	Latif Latif; Tri Harsono; Heny Yuniarti; Fierly Hayati; Widiana Ferriastuti
4	1571042962	Bio-Inspired Solar Power: Natural Dyes and the Advancements of Dye-Sensitized Solar Cells	General Topics for Engineers (Math,Science & Engineering)	Retyo Wizi Nafa Utami; Tresna Dewi; Mrs Indrayani Indrayani I
5	1571042964	Modelling and Performance Analysis of Li-Ion Batteries with Silicon Anode	Components, Circuits, Devices & Systems	Kania Yusriani Amalia; Tresna Dewi; Rusdianasari Rusdianasari
6	1571041140	Enhanced Human Segmentation from 2D LiDAR Data Using DBSCAN Clustering	General Topics for Engineers (Math,Science & Engineering)	Muhammad Ainul Fikri; Moch. Iskandar Riansyah; Farah Zakiyah Rahmanti
7	1571046787	Epileptic Seizure Detection Using DWT Based on mRMR Feature Selection Method	Computing & Processing (Hardware/Software)	Ijmau Rizki; Synatria Subekti; Sigit Indriyanto; Achmad Rizal; Triwiyanto Triwiyanto; Said Ziani

PARALLEL SESSIONS

Room : IEIT5

Date/Time. : Thursday, 12th September 2024, 13:00-14:30

Host : -

No.	Paper Id	Title	Topic	Authors
1	1571048322	Classroom Automation System Using Human Detection Based on YOLO Algorithm and IoT Technology	Robotics & Control Systems	Mazaya Mazaya; Muhammad Tristan Syazwana El Syaff; Vincentius Jason Samhadi; Brahmantya Aji Pramudita
2	1571048222	Design and Analysis of an Optical Fiber Network for Vehicles Sensing System	Communication, Networking & Broadcasting	Muhammad Athallah Adriansyah; Yus Natali; Catur Apriono
3	1571037752	Development of A Micro Counselling Educational Platform Based on AI and Face Recognition to Prevent Students Anxiety Disorder	Computing & Processing (Hardware/Software)	Dhea Fanny Putri Syarifa; Wahyu Nur Hidayat; Alvalen Shafelbilyunazra; Azarya Aditya Krisna Moeljono; Victory Kuriakos Abednego; Didik Dwi Prasetya
4	1571042817	Ability of the U-Type Savonius Vertical Wind Turbine to Produce Output Power That is Influenced by Variations in Wind Speed	Components, Circuits, Devices & Systems	Langlang Gumilar; Arya Kusumawardana
5	1571045614	K-NN for Hand Keypoints Detection Based on SIBI Standard	General Topics for Engineers (Math,Science & Engineering)	Anik Nur Handayani; Muhammad Iqbal Akbar; Harits Ar Rosyid; Muhamad Arifianto; Osamu Fukuda; Rosa Andrie Asmara
6	1571048679	Implementation of MPU6050 Module Based on ROS and PID Controller as Stabilization Control and Rotational Motion of SAR Robot	Components, Circuits, Devices & Systems; Robotics & Control Systems	Ahmad Yudhistira Fachreza Hidayat; Siti Sendari; Yogi D. Mahandi; Ilham Ari Elbaith Zaeni; Dyah Lestari; Triyanna Widiyaningtyas; Soraya Mustika; Muhammad Syifa Ridhoni; Ravi Rangga Wahyu Firmansyah; Mochammd Dimas Purwanto
7	1571048379	Development of Image Classification Model on Face Spoofing Attack Using Ensemble Learning Method	Computing & Processing (Hardware/Software)	Muhamad Raihan Ramadhan; Vera Suryani