

PROGRAMS

2024 14th IEEE International Conference on Control System, Computing and Engineering (ICCSCE2024)

Day 1: Aug. 23, 2024 (Friday)

2.30 pm – 5.00 pm	Registration
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Day 2: Aug. 24, 2024 (Saturday)

9.00 am – 10.00 am	Parallel Session 1 (1A, 1B, 1C)
10.00 am – 10.15 am	Coffee Break @ foyer
10.15 am – 11.15 am	Parallel Session 2 (2A, 2B, 2C)
11.15 am – 12.45 pm	Parallel Session 3 (3A, 3B, 3C)
12.45 pm – 2.15 pm	Lunch @ Cinnamon Asian Kitchen
2.15 pm – 3.15 pm	Parallel Session 4 (4A, 4B, 4C)
3.15 pm – 3.30 pm	Tea Break @ foyer
3.30 pm – 4.45 pm	Parallel Session 5 (5A, 5B)
4.45 pm – 5.00 pm	Closing Ceremony and Announcement of Best Paper Award

**2024 14th IEEE International Conference on Control System, Computing and Engineering
(ICCSCE2024)**

Technical Session 1A – DAY 2 – Aug. 24, 2024

Session Chair: Dr. Mohd Shafie Bakar

Time: 9.00 am – 10.00 am

Topic: Control and Systems Engineering

Room : Kayu Manis

9.00 am – 9.15 am	1006 Monitoring Water Quality for Catfish Ponds Using PID Control with Internet of Thing
9.15 am – 9.30 am	1025 YOLOv9-Based Hotspots Recognition in Solar Photovoltaic Panels: Integrating Image Processing Techniques for Targeted Region Identification
9.30 am – 9.45 am	1062 Enhancing Output Smoothness in AC-AC Converters: THDv Reduction with Bidirectional Exclusive Switches
9.45 am – 10.00 am	1064 Machine Learning Model to Enhance the Quality of Software Development Risk Management

**2024 14th IEEE International Conference on Control System, Computing and Engineering
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Technical Session 1B – DAY 2 – Aug. 24, 2024

Session Chair: Dr Kamarul Azhar Daud

Time: 9.00 am – 10.00 am

Topic: Artificial Intelligent & Optimization Systems

Room : Serai

9.00 am – 9.15 am	1001 Analysis of Power Consumption and Maximum Demand on Power Factor Using Support Vector Machine
9.15 am – 9.30 am	1030 An Optimized Harris Hawks Algorithm for Enhancing ANN Performance in Prediction Tasks Applied in Sales Domain
9.30 am – 9.45 am	1047 CNN-Based Classification of Acute Myeloid Leukaemia Blood Samples
9.45 am – 10.00 am	1008 Performance Comparison of Breathing Signal Classifiers Using Machine Learning Techniques

**2024 14th IEEE International Conference on Control System, Computing and Engineering
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Technical Session 1C – DAY 2 – Aug. 24, 2024

Session Chair: Dr. Sim Jia Jia

Time: 9.00 am – 10.00 am

Topic: Computer and Information Engineering

Room : Pandan

9.00 am – 9.15 am	1034 Influential Factors Shaping Purchase Intentions Among Malaysian Generation Z Consumers During Flash Sales Promotions
9.15 am – 9.30 am	1035 Assessing the Early Performance of Bifacial Floating PV System: A Comparative Study
9.30 am – 9.45 am	1043 Current Landscape of Generative AI: Models, Applications, Regulations and Challenges
9.45 am – 10.00 am	1046 A Low Cost and User Friendly Graphical User Interface for Programmable and Flexible FES

**2024 14th IEEE International Conference on Control System, Computing and Engineering
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Technical Session 2A – DAY 2 – Aug. 24, 2024

Session Chair: Dr Khairul Azman Ahmad

Time: 10.15 am – 11.15 am

Topic: Automation and Robotics & Control System

Room : Kayu manis

10.15 am – 10.30 am	1053 A Lightweight Convolutional Neural Network for Rice Diseases Classification
10.30 am – 10.45 am	1004 Identification of Lung Lesions in Computed Tomography Scan Images using Machine Learning Techniques
10.45 am – 11.00 am	1023 Modernizing Home Protection: An IoT-Driven Approach with Smart Lock and Android Application
11.00 am – 11.15 am	1037 Performance Evaluation of 10G-PON FTTH Access Networks

* Online presentation

**2024 14th IEEE International Conference on Control System, Computing and Engineering
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Technical Session 2B – DAY 2 – Aug. 24, 2024

Session Chair: Dr. Saiful Zaimy Yahaya

Time: 10.15 am – 11.15 am

Topic: Signal and Image Processing

Room : Pandan

10.15 am – 10.30 am	1075 Personalized Food Recommendations: A Machine Learning Model for Enhanced Dining Choices
10.30 am – 10.45 am	1077 The Importance of Artificial Intelligence in Green Innovation
10.45 am – 11.00 am	1033 Impact of Class Labeling on Myocardium Segmentation using Cascaded Deep Learning for Improved Myocardial Infarction Segmentation
11.00 am – 11.15 am	1063 An Autonomous Wheelchair Vision System: Detection of Potholes for Outdoor Manoeuvring

* Online presentation

**2024 14th IEEE International Conference on Control System, Computing and Engineering
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Technical Session 2C – DAY 2 – Aug. 24, 2024

Session Chair: Dr. Lee Poh Foong

Time: 10.15 am – 11.15 am

Topic: Data Analytic and Big Data

Room : Serai

10.15 am – 10.30 am	1026 Analysis of Logic Synthesis Results with various Technology Nodes for RISC-V Design
10.30 am – 10.45 am	1051 Automated CNN-based Semantic Segmentation for Thermal Image of Solar Photovoltaic (PV) Panel
10.45 am – 11.00 am	1072 A Bibliometric Analysis and Research Landscape of Artificial Intelligence in Education
11.00 am – 11.15 am	1049 Brainwave Patterns and Anxiety Symptoms Among Young Adult Females: An Exploratory Study

**2024 14th IEEE International Conference on Control System, Computing and Engineering
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Technical Session 3A – DAY 2 – Aug. 24, 2024

Session Chair: Nur Atharah Kamarzaman

Time: 11.15 am – 12.45 pm

Topic: Intelligence System & Renewable Energy

Room : Kayu Manis

11.15 am – 11.30 am	1061 Predicting Energy Consumption in Educational Buildings: A Comparative Study of Machine Learning Models
11.30 am – 11.45 am	1028 Optimizing Stand-Alone Photovoltaic-Battery System Sizing through Meta-Heuristic Optimization Algorithms
11.45 am – 12.00 pm	1057 Optimizing Photovoltaic Systems for Power Losses Reduction under Time-Varying Loads: A Coyote Optimization Approach
12.00 pm – 12.15 pm	1007 Optimized Feature Selection based Approach for predicting Cardiovascular Disease Risk in Indian Population
12.15 pm – 12.30 pm	1058 Development of IoT-based Headwater Phenomenon Monitoring and Warning System

**2024 14th IEEE International Conference on Control System, Computing and Engineering
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Technical Session 3B – DAY 2 – Aug. 24, 2024

Session Chair: Dr. Muhammad Khusairi Osman

Time: 11.15 am – 12.45 pm

Topic: System Identifications & Internet of Things (IoT)

Room : Pandan

11.15 am – 11.30 am	1042 A Review of RF Based Drone detection, Direction of Arrival and Identification techniques
11.30 am – 11.45 am	1050 Letters Recognition System by Deep Convolutional Neural Network
11.45 am – 12.00 pm	1019 Crack Detection on Asphalt Road in Malaysia using UAV images and YOLOv4
12.00 pm – 12.15 pm	1040 Lightning Protection Scheme Induced Current For Large-Scale Solar Photovoltaic Systems
12.15 pm – 12.30 pm	1081 Evaluation of Turbidity Effect on Manganese Detection Based on Spectroscopy Approach
12.30 pm – 12.45 pm	1060 Sizing and Cost Analysis of a Hybrid PV and Battery Energy Storage System for Residential and Commercial Buildings Employing Net Energy Metering Scheme

* Online presentation

**2024 14th IEEE International Conference on Control System, Computing and Engineering
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Technical Session 3C – DAY 2 – Aug. 24, 2024

Session Chair: Prof. Ramli adnan

Time: 11.15 am – 12.45 pm

Topic: AI & Renewable Energy

Room : Serai

11.15 am – 11.30 am	1005 Machine Learning Approaches for Sentiment Analysis on Balanced and Unbalanced Datasets
11.30 am – 11.45 am	1021 Integrating AI-Driven Control Algorithm with 3D Hand Gesture Recognition
11.45 am – 12.00 pm	1022 Recent Constraints and Challenges in Battery Management System of EVs – A Brief Review
12.00 pm – 12.15 pm	1010 Enhancing Pharmacokinetic Modeling with Fractional-Order Kinetics and Deep Learning
12.15 pm – 12.30 pm	1054 Remote Monitoring Surveillance System via LabVIEW employing the use of Hybrid Renewable Energy
12.30 pm – 12.45 pm	1069 Road Image Deblurring With Nonlinear Activation Free Network
12.45 pm – 1.00 pm	1059 Optimizing Photovoltaic Systems with an Incremental Conductance Algorithm

* Online presentation

**2024 14th IEEE International Conference on Control System, Computing and Engineering
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Technical Session 4A – DAY 2 – Aug. 24, 2024

Session Chair: Dr. Muhammed Basheer Jasser

Time: 2.15 pm – 3.15 pm

Topic: Automation and Robotics & Control System

2.15 pm – 2.30 pm	1024 Transforming Oil Palm Plantations: Leveraging Data Link using TV White Space, 5G, and Wi-Fi for Robotic Agriculture
2.30 pm – 2.45 pm	1044 ROS Integration and Evaluation for Robot Navigation in a Narrow-Path Indoor Environment
2.45 pm – 3.00 pm	1066 PID-DTC Controller for Nonlinear Knee Extension Model with Time Delay Effect in Closed-Loop FES
3.00 pm – 3.15 pm	1068 System Reconfiguration to Control Knee Extension with Time Delay Nonlinearity in Closed-Loop FES

**2024 14th IEEE International Conference on Control System, Computing and Engineering
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Technical Session 4B – DAY 2 – Aug. 24, 2024

Session Chair: Nur Athiqah Harron

Time: 2.15 pm – 3.15 pm

Topic: Artificial Intelligence & Communication Engineering

Room : Pandan

2.15 pm – 2.30 pm	1065 Innovative Kenaf-Brick Composite for Effective Microwave Absorption
2.30 pm – 2.45 pm	1071 Microwave Absorption Performance of Multilayer Anti-Radiation Bricks for Sustainable Construction Materials
2.45 pm – 3.00 pm	1070 A Novel Application of MLP Networks in Classifying L Band Eco-Friendly Microwave Absorbers
3.00 pm – 3.15 pm	1039 Microcalcification Detection for Digital Breast Tomosynthesis Images Using Faster-RCNN

**2024 14th IEEE International Conference on Control System, Computing and Engineering
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Technical Session 4C – DAY 2 – Aug. 24, 2024

Session Chair: Assoc. Prof. Ir. Dr. Audrey Huang

Time: 2.15 pm – 3.15 pm

Topic: Signal and Image Processing

Room : Serai

2.15 pm – 2.30 pm	1009 PSO-optimized U-Net for Automatic Retinal Optic Disk Segmentation
2.30 pm – 2.45 pm	1011 Enhancing Lung Cancer Classification: Leveraging Existing Convolutional Neural Networks within a 1D Framework
2.45 pm – 3.00 pm	1016 Covid-19 Chest X-Ray Classification using Convolutional Neural Network
3.00 pm – 3.15 pm	1003 Enhancing High-Value Asset Security: RFID based Anti-theft System Evaluation and Optimization

**2024 14th IEEE International Conference on Control System, Computing and Engineering
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Technical Session 5A – DAY 2 – Aug. 24, 2024

Session Chair: Dr. Iza Sazanita Isa

Time: 3.45 pm – 4.30 pm

Topic: Artificial Intelligent & Optimization Systems

Room : Serai

3.30 pm – 3.45 pm	1032 Impact of Dust Deposition on PV Performance and Hotspot Generation: I-V and Thermal Analysis with SEM and UV-VIS-NIR
3.45 pm – 4.00 pm	1038 Analyzing Model Order Estimation in Industrial Hydraulics System using Open Loop Identification
4.00 pm – 4.15 pm	1052 Dysgraphia Handwriting Image Augmentation for CNN Model Classification
4.15 pm – 4.30 pm	1074 Design of Digital System Identification Controller for a Nonlinear Knee Model in Closed-Loop Functional Electrical Stimulator (FES)

**2024 14th IEEE International Conference on Control System, Computing and Engineering
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Closing ceremony – DAY 2 – Aug. 24, 2024

Time: 4.45 pm – 5.00 pm

Room : Pandan

4.45 pm – 5.00 pm	Closing Ceremony and Announcement of Best Paper Award
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