

PROGRAMS

2023 13th IEEE International Conference on Control System, Computing and Engineering (ICCSCE2023)

Day 1: Aug. 25, 2023 (Friday)

2.30 pm – 3.00 pm	Registration
3.00 pm – 4.15 pm	Parallel Session 1 (1A, 1B, 1C)
4.15 pm – 4.30 pm	Tea Break @ foyer
4.30 pm – 5.45 pm	Parallel Session 2 (2A, 2B)

Day 2: Aug. 26, 2023 (Saturday)

9.00 am – 9.45 am	Keynote Session 1: <i>Modelling and Control of Unmanned Aerial Vehicles - Quadcopter</i> – Prof. Ts. Dr. Mohd Fua’ad Bin Rahmat
10.00 am – 10.45 am	Keynote Session 2: <i>Universality of Active Noise Cancellation Issues in Control Engineering: From Non-minimum Phase to Nonlinear Systems</i> – Assoc. Prof. Ir. Dr. Raja Mohd Kamil Bin Raja Ahmad
10.45 am – 11.00 am	Coffee Break @ foyer
11.00 am – 12.45 pm	Parallel Session 3 (3A, 3B, 3C)
12.45 pm – 2.15 pm	Lunch @ Cinnamon Asian Kitchen
2.15 pm – 3.30 pm	Parallel Session 4 (4A, 4B, 4C)
3.30 pm – 3.45 pm	Tea Break @ foyer
3.45 pm – 4.45 pm	Parallel Session 5 (5A, 5B)
4.45 pm – 5.00 pm	Closing Ceremony and Announcement of Best Paper Award

Keynote Sessions @ Jintan

**2023 13th IEEE International Conference on Control System, Computing and Engineering
(ICCSCE2023)**

Technical Session 1A – DAY 1 – Aug. 25, 2023

Session Chair: Mrs. Dayang Shuhada Awang Damit

Time: 3.00 pm – 4.15 pm

Topic: Artificial Intelligent and Optimization Systems

Room : Jintan

3.00 pm – 3.15 pm	111 Explosive Blast Prediction using MLP Network based Training Algorithm Muhamad Hadzren Mat, Prakash Nagappan, Syahrull Hi-Fi Syam Ahmad Jamil, Fakroul Ridzuan Hashim, Khairol Amali Ahmad, Kamsani Kamal
3.15 pm – 3.30 pm	131 Optimizing Network Classification Performance by Geometric Transformations on Delayed Enhancement Cardiac Magnetic Resonance Imaging Dayang Suhaida Awang Damit, Siti Noraini Sulaiman, Muhammad Khusairi Osman, Noor Khairiah A. Karim, Belinda Chong Chiew Meng, Mohd Firdaus Abdullah
3.30 pm – 3.45 pm	117 The Bigger Picture: Scene Understanding for Recognizing Accidents within Mixed-Traffic Scenario using Deep Learning Swee Tee Fu, Bee Theng Lau, Brian Chung Shiong Loh, Mark Kit Tsun Tee
3.45 pm – 4.00 pm	194 Prediction The Number of Lamps Required For The Lighting System According To The JKR Lux Standards By Using Artificial Neural Network Method Nuzul Lokman Hakim Zulkifli, Mohamad Adha Mohamad Idin, Samshul Munir Muhamad, Ahmad Asri Abd Samat, Khairul Azman Ahmad, Noorezal Atfyinna Mohd Napiah
4.00 pm – 4.15 pm	124 Comparison of Prostate Cell Image Classification Using CNN: ResNet-101 and VGG-19 Yessi Jusman

* Online presentation

**2023 13th IEEE International Conference on Control System, Computing and Engineering
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Technical Session 1B – DAY 1 – Aug. 25, 2023

Session Chair: Dr Ahmad Asri Abd Samad

Time: 3.00 pm – 4.15 pm

Topic: Autonomous Vehicle & Automation and Robotics & IoT

Room : Lawang

3.00 pm – 3.15 pm	199 Improving Performance of Photovoltaic Solar Pumps Using PSO-Based Maximum Power Point Tracking Mohamad Zaid Nordin Siti Sarah Mat Isa Ahmad Asri Abd Samad, Nornaim Kamarudin Muhammad Eillieyin Mohd Ghazali Kamarulazhar Daud
3.15 pm – 3.30 pm	162 Optimal Finite-Time Prescribed Performance of Servo Pneumatic Positioning with PID Control Tuning using an Evolutionary Mating Algorithm Addie Irawan Mohd Herwan Sulaiman Mohd Iskandar Putra Azahar
3.30 pm – 3.45 pm	125 OptimRSEG: An optimized semantic road segmentation model Audrey Huong Kim Gaik Tay Xavier Ngu
3.45 pm – 4.00 pm	203 Emergency Rescue Alert and Notification System for Madrasah (ERANO-MAD) Muhammad Mahadi Abdul Jamil Nur Liyana Erny Ahmad Khairan Wan Suhaimizan Wan Zaki Radzi Ambar Mohd Helmy Abd Wahab
4.00 pm – 4.15 pm	128 User's Acceptance and Intention of Blockchain Technology with UTAUT 3 Model: Beneficial or Detrimental in the Indonesia Banking Industry* Sintya PanjaitanStevi Valiyenty Ignatius Riantono https://youtu.be/uT6R1sRFPSg

* Online presentation

**2023 13th IEEE International Conference on Control System, Computing and Engineering
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Technical Session 1C – DAY 1 – Aug. 25, 2023

Session Chair: Dr. Muhammad Khusairi Osman

Time: 3.00 pm – 4.15 pm

Topic: Biomedical and Biomechatronic & Rehabilitation Engineering

Room : Pala

3.00 pm – 3.15 pm	157 A Comparative Performance of Genetic Algorithm and Bayesian Optimization on Hyperparameter Tuning for Mammogram Classification Noor Fadziilah Razali, Iza Sazanita Isa, Siti Noraini Sulaiman, Noor Khairiah A. Karim, Muhammad Khusairi Osman, Zainal Hisham Che Soh, Zakiah Mohd Yusoff
3.15 pm – 3.30 pm	189 Frontal Face Tracking in the Thermal Infrared Imaging for Autism Spectrum Disorder Children Mohammad Ariff Rashidan Shahrul Na'im Sidek Hazlina Md Yusof, Aimi Shazwani Ghazali, Nazreen Rusli
3.30 pm – 3.45 pm	137 A review on Performance of Various Types of Brain Computer Interface* Bahareh Nazar Hosseini Saber Reyhaneh Nazar Hosseini Saber
3.45 pm – 4.00 pm	126 Ensemble Deep Learning Approach for the Detection of Native Advertisement in News Content Brian Rizqi Paradisiaca Darnoto Daniel Siahaan Diana Purwitasari
4.00 pm – 4.15 pm	195 Design and Implementation of 3 - bit Calculator for an ALU using Vertical and Crosswise Multiplication* Suresh Rasappan, Gunasekaran Thangavel, Rafeek Ahmed S, Ahamed Nishath S, Musab A M Ali, Nooritawati Md Tahir https://youtu.be/A4-vy3fYsA8

* Online presentation

**2023 13th IEEE International Conference on Control System, Computing and Engineering
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Technical Session 2A – DAY 1 – Aug. 25, 2023

Session Chair: Dr. Khairul Azman Ahmad

Time: 4.30 pm – 5.45 pm

Topic: Control and Systems Engineering

Room : Jintan

4.30 pm – 4.45 pm	116 Construction of the Shewhart Median Chart Based on the Expected Percentile Run Length Zhi Lin Chong, Wei Lin Teoh, Huay Woon You, Wai Chung Yeong, Michael Boon Chong Khoo
4.45 pm – 5.00 pm	145 Stepwise Comparison for Minimizing Controller Makespan Yuki Shimizu, Takanori Hirano, Takuto Yamauchi, Kenji Tei
5.00 pm – 5.15 pm	155 Pre-controller Synthesis for Runtime Controller Synthesis Yuki Arioka Takuto Yamauchi Kenji Tei
5.15 pm – 5.30 pm	139 Simulation and Analysis of Piezoelectric Energy Harvesting Device: Effects of Applied Weight on Output Voltage Khairul Azman Ahmad, Muhamad Faizal Abd Rahman, Muhammad Khusairi Osman, Mohamad Adha Mohamad Idin, Rozan Boudville, Saiful Zaimy Yahaya, Mat Nizam Mahmud, Noramalina Abdullah
5.30 pm – 5.45 pm	165 Monitoring Blood Glucose Level by Comparison between UVA/PADOVA Simulator and In-Silico Work of Improved Hovorka Equations Coupled with enhanced Model Predictive Control (eMPC) for Type 1 Diabetes Mellitus Patients Muhammad Syafiq Mustaffa Mustaffa Nurul Haiza Sapiee Haiza Sherif Abdulbari Ali Sherif Ayub Md Som Ayub

* Online presentation

**2023 13th IEEE International Conference on Control System, Computing and Engineering
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Technical Session 2B – DAY 1 – Aug. 25, 2023

Session Chair: Dr. Samihah Abdullah

Time: 4.30 pm – 5.45 pm

Topic: Computer and Information Engineering & IoT

Room : Lawang

4.30 pm – 4.45 pm	122 Parametric Assessment of Communication Protocol for Evaluating the Efficacy of Real-time Healthcare Data Transmission Monitoring System Azwati Azmin, Samihah Abdullah, Wan Rahiman
4.45 pm – 5.00 pm	108 Android Based Mobile Information and Management Application for University Kang Seng Er Heshalini Rajagopal Shayla Islam
5.00 pm – 5.15 pm	201 Learning Rate Optimization for Enhanced Hand Gesture Recognition using Google Teachable Machine Safyzan Salim Muhammad Mahadi Abdul Jamil Radzi Ambar Wan Suhaimizan Wan Zaki Suraya Mohammad
5.15 pm – 5.30 pm	202 Empowering Small and Medium Enterprises with Data Analytics for Enhanced Competitiveness* Aisa Mosbah Musab A. M. Ali Nooritawati Md Tahir https://youtu.be/kcpBeNxmQYI
5.30 pm – 5.45 pm	136 Fruit Quality Detection and Monitoring System* Md Maruf Kamran Sohag Muhtasim Ibtada Shochcho Md. Ridwan Mahmud Mohammad Ashfaq Ur Rahman Daiyan Mohammad Shams Mysha Samiha Samiha Mohammad Rejwan Uddin

* Online presentation

**2023 13th IEEE International Conference on Control System, Computing and Engineering
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Technical Session 3A – DAY 2 – Aug. 26, 2023

Session Chair: Prof. Dr. Ramli Adnan

Time: 11.00 am – 12.45 pm

Topic: Artificial Intelligent and Optimization Systems

Room : Jintan

11.00 am – 11.15 am	184 An Optimized Hybrid Dragonfly Algorithm Applied for Solving the Optimal Reactive Power Dispatch Problem in Smart Grids Bibi Aamirah Shafaa Emambocus Muhammed Basheer Jasser Shamuhmet Rejepov Hui Na Chua Ahmad Sahban Rafsanjani Ismail Ahmed Al-Qasem Al-Hadi
11.15 am – 11.30 am	132 Hybrid Modal-Machine Learning Approach for Structural Damage Diagnosis Pei Yi Siow Zhi Chao Ong Shilei Chen
11.30 am – 11.45 am	172 Implementation of Artificial Intelligence Chatbot in Semiconductor Manufacturing to Optimize Overall Equipment Effectiveness Siu Hong Loh Vincent Jascha Jeuk Jia Jia Sim
11.45 am – 12.00 pm	152 Classification Performance of Directed Acyclic Graph (DAG) Network on Potential Dyslexia Handwriting Images Siti Azura Ramlan Iza Sazanita Isa Muhammad Khusairi Osman Ahmad Puad Ismail Zainal Hisham Che Soh
12.00 pm – 12.15 pm	163 An Automated Blastocyst Grading System Using Convolutional Neural Network and Transfer Learning* Yusuf Abas Mohamed Umi Kalsom Yusof Iza Sazanita Isa Murizah Mohd Zain
12.15 pm – 12.30 pm	148 Exploring the Effectiveness of GRU Model with SIELU Activation Function for Water Quality Classification* Abdullahi Abdi Abubakar Hassan Nordiana Rahim Rozaida Ghazali https://youtu.be/0IXxuKnBd_Q

* Online presentation

**2023 13th IEEE International Conference on Control System, Computing and Engineering
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Technical Session 3B – DAY 2 – Aug. 26, 2023

Session Chair: Dr. Mohd Firdaus Abdullah

Time: 11.00 am – 12.45 pm

Topic: Signal and Image Processing

Room : Lawang

11.00 am – 11.15 am	127 Comparative Study between Horn-Schunk and Lucas Kenade Optical Flow Method for Lung Lesion Identification Mohd Firdaus Abdullah Siti Noraini Sulaiman Muhammad Khusairi Osman Noor Khairiah Abdul Karim Adi Izhar Che Ani Dayang Suhaida Awang Damit
11.15 am – 11.30 am	156 Application of Geometric Features on Lung Lesion and Non-Lesion Segmentation Nurul Najiha Jafery Siti Noraini Sulaiman Muhammad Khusairi Osman Noor Khairiah A. Karim Mohd Firdaus Abdullah Iza Sazanita Isa
11.30 am – 11.45 am	158 Human Action Recognition (HAR) using Image Processing on Deep Learning Ahmad Puad Ismail Muhammad Afiq Azahar Nooritawati Md Tahir Kamarulazhar Daud Nazirah Mohamat Kasim
11.45 am – 12.00 pm	159 Luminance Based Detection of Adulterated Honey using Machine Learning Alia Qamelia Mohd Zuber Nur Hazliza Ariffin Sabiran Abu Bakar
12.00 pm – 12.15 pm	167 Fusing Frontal Face Recognition Using Multi View Cameras Mohammad Ariff Rashidan Shahrul Na'im Sidek Mouaz Mhd Amer Alsamman
12.15 pm – 12.30 pm	154 Plant Disease Detection and Segmentation using End-to-End YOLOv8: A Comprehensive Approach* Syed Asif Ahmad Qadri Nen-Fu Huang Taiba Majid Wani Showkat Ahmad Bhat https://youtu.be/w2xFE58PCP8

* Online presentation

**2023 13th IEEE International Conference on Control System, Computing and Engineering
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Technical Session 3C – DAY 2 – Aug. 26, 2023

Session Chair: Dr. Zuraida Muhammad

Time: 11.00 am – 12.45 pm

Topic: Sensors and Sensing Techniques & IoT

Room : Pala

11.00 am – 11.15 am	175 Water Level Control In Boiler System Using Self-tuning Fuzzy PID Controller Zuraida Muhammad Syahmin Hamka Ahmad Dziauddin Shabinar Abd Hamid Nor Adni Mat Leh
11.15 am – 11.30 am	150 Effects of Pre-Processing and Principal Components for Artificial Neural Network in Non-Destructive Internal Quality Prediction across Different Harvest Periods Yit Peng Tan Kim Seng Chia
11.30 am – 11.45 am	186 Disturbance Forces Compensation in Machine Tools using Robust Controller Yit Chang Lee Tsung Heng Chiew Yoon Ket Lee Kai Ming Chang Jia Jan Ong Yeh Huann Goh
11.45 am – 12.00 pm	110 Energy-Saving Wireless Bidirectional People Counter With Notification And Data-Storing Systems* Marc Joshua Rivera, Deiscart D’Mitrio C. Maceda, Andrew G. Bitancor, Leonardo C.Sawal, Rose Ann R. Blanqueza, Natalie Joy dJ. Dazo, Hannah Faye L. Sabillo https://www.youtube.com/watch?v=t55a62yJX-s
12.00 pm – 12.15 pm	191 A Framework to Support the Delivery and Assessment of Practical-Based Concepts on Online Learning* Amal Al-Abri Moza Al-BalushiFatma Al-Shemali Nooritawati Md Tahir https://www.youtube.com/watch?v=HKoldzsUmI0&ab_channel=Dr.MusabAlRawi
12.15 pm – 12.30 pm	197 Security Analysis of DNP3 Protocol in SCADA* Qais Saif Qassim Musab Alrawi Nooritawati Md Tahir Mohammed Najah Mahdi https://youtu.be/9vQ2xrESqrw
12.30 pm – 12.45pm	115 Exploring Blockchain for KYC: Deepening Client Understanding Muhammad Akmal Anuar Akram M Zeki Adamu Abubakar

* Online presentation

**2023 13th IEEE International Conference on Control System, Computing and Engineering
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Technical Session 4A – DAY 2 – Aug. 26, 2023

Session Chair: Dr. Shabinar Abdul Hamid

Time: 2.15 pm – 3.30 pm

Topic: Computer and Information Engineering & Signal and Image processing

Room : Jintan

2.15 pm – 2.30 pm	119 Structural Similarity Assesment of Business Process Graph Using GED-Greedy Kristina Kristina Ary Mazharudin Shiddiqi Daniel Siahaan Hidayatul Munawaroh
2.30 pm – 2.45 pm	173 A Comparative Study on COCOMO II Model for Cost Estimation Rahmi Rizkiana Putri Daniel Siahaan Chastine Fatichah
2.45 pm – 3.00 pm	198 Development And Evaluation of Wireless Oxygen Saturation Monitoring System Muhammad Amar Haziq Mohd Karia Shabinar Abdul Hamid Samihah Abdullah Zuraida Muhammad Solahuddin Yusuf Fadhlullah Yusuf Fadhlullah Nor Adni Mat Leh
3.00 pm – 3.15 pm	138 Pain Classification Using Statistical Feature Extraction Using Machine Learning Approach: A Pilot Study* Sudimanto Iman Herwidiana Kartowisastro Agung Trisetyarso Widodo Budiharto https://youtu.be/vsuOhHA7Spg
3.15 pm – 3.30 pm	120 Rainfall classification prediction model for Philippines using Optimized K-nearest Neighbor algorithm with GridSearchCV Hyperparameter Tuning* Deiscart D'Mitrio maceda Jennifer dela cruz https://youtu.be/Nu4Jp6SIJJE

* Online presentation

**2023 13th IEEE International Conference on Control System, Computing and Engineering
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Technical Session 4B – DAY 2 – Aug. 26, 2023

Session Chair: Dr. Muhammed Basheer Jasser

Time: 2.15 pm – 3.30 pm

Topic: Data Analytic and Big Data & IoT

Room : Lawang

2.15 pm – 2.30 pm	193 Problem Understanding of Fake News Detection from a Data Mining Perspective Hui Na Chua Qaisar Khan Muhammed Basheer Jasser Richard T. K. Wong
2.30 pm – 2.45 pm	204 IoT Based Domestic Water Piping Leakage Monitoring and Detection System Rozan Boudville, Muhamad Haikal Hakimi Mohamad Basri, Muhammad Zaim Kamal Abdul, Khairul Azman, Saiful Zaimy Yahaya, Nurul Izza Husin
2.45 pm – 3.00 pm	179 A State-of-the-Art AF-HIDOP: A Model for Daily Covid-19 Infectious Disease Outbreak Spread Risk Prediction* Moataz Fayad Mansour Youseffi Jian-Ping Li Mahadi Abdul-Jamil
3.00 pm – 3.15 pm	176 A Recent Assessment for the Ransomware Attacks Against the Internet of Medical Things (IoMT): A Review* Tamara Nusairat Madihah Mohd Saudi Azuan Bin Ahmad https://youtu.be/UshIL-0UU8A
3.15 pm – 3.30 pm	118 Predictive Analytic Through Classification Technique on Mental Health Condition Among Universiti Malaysia Pahang Students Towards Endemic COVID-19 Siti Nur Ameza Onn Sarah Rahmany Nabilah Filzah Mohd Radzuan

* Online presentation

**2023 13th IEEE International Conference on Control System, Computing and Engineering
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Technical Session 4C – DAY 2 – Aug. 26, 2023

Session Chair: Dr. Kamarulazhar Daud

Time: 2.15 pm – 3.30 pm

Topic: Internet of Things, Navigation Systems & Data Analytics and Big Data

Room : Pala

2.15 pm – 2.30 pm	187 Development of an IoT-based Fish Farm Monitoring System Siu Hong Loh Peh Chiong Teh Guang Yang Goay Jia Jia Sim
2.30 pm – 2.45 pm	113 Implementation of Identification of Voltage Sag Location in Distribution Network with Harmonic Alif Irfan Kamaruddin Kamarulazhar Daud Ahmad Asri Abd Samat Saodah Omar Ahmad Puad Ismail Wan Salha Saidon
2.45 pm – 3.00 pm	160 Uncertainty Based Approach of Commercial TOU Tariff Muhammad Luqman Hakim Muhammad Rizal Nor Adni Mat Leh Zuraida Muhammad Shabinar Abdul Hamid Yusnita Mohd Ali
3.00 pm – 3.15 pm	177 Maximum Demand Peak Shave Approach Utilising a Hybrid Solar PV and Battery Energy Storage System Intan Rahayu Ibrahim Muhammad Naqib Azman Nur Atharah Kamarzaman Rosheila Darus
3.15 pm – 3.30 pm	114 Invariant Extended Kalman Filter for Low-Cost Foot-Mounted Inertial Pedestrian Navigation Khairi Abdulrahim

* Online presentation

**2023 13th IEEE International Conference on Control System, Computing and Engineering
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Technical Session 5A – DAY 2 – Aug. 26, 2023

Session Chair: Dr. Iza Sazanita

Time: 3.45 pm – 4.45 pm

Topic: Artificial Intelligent and Optimization Systems & Signal Image Processing

Room : Lawang

3.45 pm – 4.00 pm	169 An Automated Day 3 Embryo Grading Based on Morphological Characteristics Using CNN with Transfer Learning Techniques Kevin Alkindy Faisal Umi Kalsom Yusof Murizah Mohd Zain
4.00 pm – 4.15 pm	112 MLP Network Prediction for Blast Explosive based Training Algorithm* Prakash Nagappan, Muhamad Hadzren Mat, Syahrull Hi-Fi Syam Ahmad Jamil, Fakroul Ridzuan Hashim, Muhammed Alias Yusof, Mohd Sharil Salleh
4.15 pm – 4.30 pm	129 FSCS with Error Sharing based on Alpha Weights for Improving Accuracy of Reconstructed Images Eri Suzuki Takuto Yamauchi Kenji Tei
4.30 pm – 4.45 pm	121 A Comparison of Deep Learning for Software Features Extraction in Forensic Online News Fredrikus Suarezsaga Daniel Siahaan Anny Yuniarti

**2023 13th IEEE International Conference on Control System, Computing and Engineering
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Technical Session 5B – DAY 2 – Aug. 26, 2023

Session Chair: Dr. Saiful Zaimy Yahaya

Time: 3.45 pm – 4.45 pm

Topic: Signal and Image Processing

Room : Pala

3.45 pm – 4.00 pm	123 Analysis Of Imagined Speech Characteristics Using Phase-Based Connectivity Measures Meenakshi Bisla, Radhey Anand
4.00 pm – 4.15 pm	205 Development of Sensory Unit Using Single IMU Sensor for Knee Joint Movement Kamalina 'Aainaa Kamaruzaman Saiful Zaimy Yahaya Emilia Noorsal Rozan Boudville Fadzil Ahmad Zainal Hisham Che Soh
4.15 pm – 4.30 pm	182 Analysis of Centroid Position to Measure the Distance of People in the Crowd* Slamet Riyadi Cahya Damarjati Hesti Media Tama Siti Noraini Sulaiman
4.30 pm – 4.45 pm	183 A Study on the Rotation Motor Correlation between Sound Signal and IMU Sensor* Ekkawit Wangkanklang Koike Yoshikazu

* Online presentation

**2023 13th IEEE International Conference on Control System, Computing and Engineering
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Closing ceremony – DAY 2 – Aug. 26, 2023

Time: 4.45 pm – 5.00 pm

Room : Jintan

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