

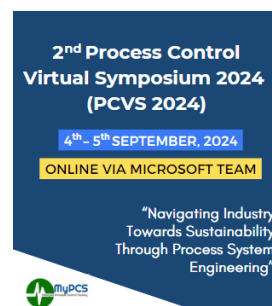
2nd Process Control Virtual Symposium 2024 (PCVS2024)

4 to 5 September 2024

Symposium Link (MS Teams): <https://bit.ly/pcvs2024>

Program

Day 1: 4th September 2024 (9.00 am to 5.00 pm, Malaysia Time)



Time	Presenter/Authors	Presentation Title
9.00 am to 9.15 am	Opening by Chairman of Malaysia Process Control Society	
9.15 am to 10.00 am	Keynote Speaker 1: Ir Fauziah Ali Head, Process Control and Optimisation, Group Technical Solutions PETRONAS, MALAYSIA	Into The Future with Process Control
10.00 am to 10.30 am	Solution Engineering Sdn. Bhd. 	Digital Twin as Virtual Equipment for Engineering Education
10.40 am to 10.55 am	Khalid Abdirashid Sulaiman UCSI University	Metaheuristic Inspired Algorithm for Supervisory Fuzzy Controller for Plant-Wide
11.00 am to 11.15 am	Mohd Fauzi Zaniil Asia Pacific University of Technology and Innovation (APU)	Optimal Rules Base Development in Type-2 Fuzzy Logic for Stochastic Multiple Tank Control System
11.20 am to 11.35 am	Dr. Thanh Sang, Nguyen HCMC University of Technology and Education, Vietnam	Tracking-Error Passivity-Based Control Approach for The Stabilization of Chemical Reaction Systems Using Partially Decoupled Dynamics
11.40 am to 11.55 am	Ahmad Luqman Hakim bin Mohd Zainuddin Universiti Kebangsaan Malaysia (UKM)	Development of an Intelligent System for Temperature Control in Boiler
12.00 pm to 12.15 pm	Assoc. Prof. Ts. Dr. Mohd Kamaruddin bin Abd Hamid Universiti Malaysia Sabah (UMS)	Immersive Learning Experience in Process Simulation Course

12.20 pm to 12.35 pm	Nidhi Rajesh Mavani National University of Malaysia (UKM)	A Graphical User Interface for Determining the Concentration of Sulphur Dioxide, Benzoic Acid, And Sorbic Acid in Food Products
12.40 pm to 12.55 pm	Arvin Ayazi Xiamen University Malaysia (XMUM)	Simulation And Performance Assessment of A Pure Acetone Production Facility Via Isopropanol Dehydrogenation In A Heterogeneous Catalytic Reactor
1.00 pm to 2.00 pm	LUNCH BREAK	
2.00 pm to 2.15 pm	Nyoman Agus Budi Hanifan Universitas Gadjah Mada (UGM), Indonesia	Concentrating And Rejecting Lithium Ion Using Forward and Reverse Electro Nanofiltration
2.20 pm to 2.35 pm	Aulia Azzahra Universitas Gadjah Mada (UGM), Indonesia	Aqueous Mineral Carbonation of Red Mud for CO ₂ Permanent Sequester
2.40 pm to 2.55 pm	Dr. Sudibyo Research Center for Mining Technology - National Research and Innovation Agency (BRIN), Indonesia	Comparative Analysis of Wiener Neural, Hammerstein Neural, Hammerstein - Wiener Neural Model in Phytoremediation of Liquid Waste Using Lemna Minor
3.00 pm to 3.15 pm	Dr. Dinie Muhammad University Technology Malaysia (UTM)	Fault Detection and Classification in Steam Methane Reforming Process Using Long Short-Term Memory Model
3.20 pm to 3.35 pm	Azman Bin Ariffin University Malaya (UM)	Water Purification Using a Portable UF System with Backwash
3.40 pm to 3.55 pm	Azizullah Hanif University Malaya (UM)	Performance Of Ultra Low-Pressure Reverse Osmosis Membrane (ULPRO) System for Backwash in Brackish Water Treatment with Recycling
4.00 pm to 4.45 pm	Keynote Speaker 2: Professor Iqbal Mujtaba School of Engineering, Faculty of Engineering and Digital Technologies, University of Bradford, UNITED KINGDOM	To Control, Or Not to Control, That Is the Question: Why and How?
4.50 pm	Closing for the first day PCSV2024	

Day 2: 5th September 2024 (9.00 am to 6.00 pm, Malaysia Time)

Time	Presenter/Group	Presentation Title
9.00 am to 9.10 am	Announcement MATLAB Competition opening	
9.15 am to 9.40 am	Nidhi Rajesh Mavani National University of Malaysia (UKM)	Determining Food Safety by Using Fuzzy Logic Based on the Benzoic Acid, Sulphur Dioxide, and Sorbic Acid Concentration.
9.45 am to 10.10 am	RTO-X Dr. Dinie Bin Muhammad University Technology Malaysia (UTM)	Multi-Objective Adaptive Optimization for Minimizing Energy in Industrial LDPE Tubular Reactor
10.15 am to 11.00 am	Keynote Speaker 3: Dr. Shahrul Azman Zainal Abidin (Honeywell International Sdn Bhd)	Emissions Digital Twin
11.05 am to 11.30 am	Ahmad Luqman Hakim bin Mohd Zainuddin Universiti Kebangsaan Malaysia (UKM)	Development Of an Intelligent System for Temperature Control in Boiler
11.35 am to 12.00 pm	Ravinkumar Manimaran Universiti Kebangsaan Malaysia (UKM)	Development of Mathematical Model in the Production of Magnesium Stearate using Palm Stearin
12.05 pm to 12.30 pm	Dr. Helen Chuo Sin Ee, Tan Min Keng, Lim Kit Guan, and Kenneth Teo Tze Kin Universiti Malaysia Sabah (UMS)	Multiobjective Fed-Batch Production Optimisation through Learning Intelligence
12.35 pm to 1.00 pm	Siti Nor Azreen Ahmad Termizi, Fakhrony Sholahudin Rohman, Dinie Muhammad and Sharifah Rafidah Wan Alwi University Technology Malaysia (UTM)	Real-Time Particle Swarm Optimization for Industrial Cogeneration Plant (RTPSO-CHP)
1.00 pm to 2.00 pm	LUNCH BREAK	

2.00 pm to 2.25 pm	Lim Sin Yee, Khew Kit Jien and Yap Chee Hoe Universiti Putra Malaysia (UPM)	Coffee Extraction Simulations
2.30 pm to 2.55 pm	Khalid Abdirashid Sulaiman UCSI University	Metaheuristic Inspired Algorithm for Supervisory Fuzzy Controller for Plant wide
3.00 pm to 3.25 pm	Curtin Malaysia Hydrogen Research (CMHR) Group Assoc. Prof. Dr. Jobrun Nandong, Zhia Jie Yong and Ir. Dr. Wan Sieng Yeo Curtin University Malaysia	MATLAB Simulink Simulator – Chemical Looping Moving Bed Oxidizer
3.30 pm to 3.55 pm	Ikhlas-Ahmad bin Sharol Lail and Stanley Wong Wei June Universiti Malaya (UM)	Comparing the performance of fuzzy logic control system for non-isothermal CSTR in series with normal conventional PID controller
4.00 pm to 4.25 pm	Dr. Helen Chuo Sin Ee Universiti Malaysia Sabah (UMS)	Intelligent exothermic process control
4.30 pm to 5.00 pm	Assoc. Prof. Ir. Dr. Syamsul / Assoc. Prof. Ir. Dr. Haslinda	Introductory to MyPCS and Activities
5.00 pm to 5.30 pm	Award Ceremony & Closing of PCVS2024	Best Presenter Awards (2) Best MATLAB Project Award (3) (Gold, Silver, Bronze)