MERCon 2025 - Session Details	
Track	**Description**
T1	Mechanical Engineering Systems
T2	Power Systems, Electrical Machines and High Voltage Engineering
T3	Data Science and Artificial Intelligence
T4	Textile and Apparel
T5	Chemical and Process Engineering
T6	Mechatronics and Micro-mechatronics Systems
T7	Sustainable Energy & Environment
T8	Robotics and Intelligent Systems
T9	Image Processing and Computer Vision
T10	Materials Science and Engineering
T12	Mining and Earth Resources Engineering
T13	Communication and Signal Processing
T14	Electronics, Control, and Instrumentation
T15	Structural Engineering and Building Materials
T16	Hydraulics and Environmental Engineering
T17	Technology Management
T18	Engineering Mathematics and Statistics
T19	Transportation Engineering
T20	Biomedical Engineering
T21	Software Engineering and Cloud Computing
T22	Geotechnical Engineering
T23	Supply Chain, Logistics, and Mobility Engineering

MERCon 2025 - Conference Schedule

14th August 2025 (D1)

Venue	V1-Structural Engineering PG Room	Venue	V2-Transportation Engineering PG Room	Venue	V3-Construction Management PG Room	Venue	V4-Environmental Engineering PG Room	Venue	V5 - To be Announced	Venue	V6 - To be Announced
Time	Session	Time	Session	Time	Session	Time	Session	Time	Session	Time	Session
0745 - 0830 h	Onsite Registration & Opening Ceremony										
0830 - 0945 h	T1-A	0830 - 0945 h	T20	0830 - 0945 h	T14	0830 - 0945 h	T9-A	0830 - 0945 h	T3-A	0830 - 0945 h	T23
0945 - 1000 h	Tea										
1000 - 1100 h	T1-B	1000 - 1100 h	T13	1000 - 1100 h	T12 / T22	1000 - 1100 h	T9-B	1000 - 1100 h	T3-B	1000 - 1100 h	T23
1100 - 1200 h	Keynote speech by Prof. Sarath Perera: "Connection of Renewable Energy Sources to Electricity Grids: Some Australian Experiences" (Venue: Civil Engineering Auditorium)										
1200 - 1300 h	Lunch										
1300 - 1400 h	T1-C / T6	1300 - 1400 h	T15-A	1300 - 1400 h	T8	1300 - 1400 h	T4-A	1300 - 1400 h	T17-A	1300 - 1400 h	T19-A
1400 - 1430 h	Tea										
1430 - 1600 h	T5	1430 - 1600 h	T15-B	1430 - 1600 h	T21	1430 - 1600 h	T4-B	1430 - 1600 h	T17-B	1430 - 1600 h	T19-B

15th August 2025 (D2)

Venue	V1-Structural Engineering PG Room	Venue	V2-Transportation Engineering PG Room	Venue	V3-Construction Management PG Room	Venue	V4-Environmental Engineering PG Room	Venue	V5 - To be Announced	Venue	V6 - To be Announced
Time	Session	Time	Session	Time	Session	Time	Session	Time	Session	Time	Session
0745 - 0830 h	Onsite Registration										
0830 - 0945 h	T16-A	0830 - 0945 h	T10-A	0830 - 0945 h	T7-A	0830 - 0945 h	T9-C	0830 - 0945 h	T3-C	0830 - 0945 h	T2
0945 - 1000 h	Tea										
1000 - 1100 h	T16-B	1000 - 1100 h	T10-B	1000 - 1100 h	T7-B	1000 - 1100 h	T9-D	1000 - 1100 h	T3-D	1000 - 1100 h	T2
1100 - 1200 h	Keynote speech by Prof. Jason Mars: "From Generative to Agentic: The Quiet Revolution Transforming How We Build AI-Powered Software" (Venue: Civil Engineering Auditorium)										
1200 - 1300 h	Lunch										
1300 - 1400 h	T16-C	1300 - 1415 h	T10-C	1300 - 1415 h	T18	1300 - 1415 h	T9-E	1300 - 1415 h	T3-E	1300 - 1415 h	
1415 - 1445 h	Tea										
1430 - 1600 h		1445 - 1600 h		1445 - 1600 h		1445 - 1600 h		1445 - 1600 h		1445 - 1600 h	
1800 - 2200 h	Keynote speech by Prof. Lingjia: "Models that Make Sense: Human-Aligned Evaluation and Retrieval in the Age of AI", Awards Ceremony, and Banquet (Venue: Kingsbury Hotel Colombo 01)										

MERCon 2025 - Workshop Schedule

14th August 2025 (D1)

Venue	W1 -Faculty of Grad. Studies Board Room	Venue	W2 - Dept. of Electronics and Telecom. Eng.	Venue	W3 - Classroom 01 New Textile Building	Venue	W4 - Level 3.5 Dept. of Electronics and Telecom. Eng.	Venue	W5 - Computer Lab Dept. of Chemical and Process Eng.
Time		Time		Time		Time		Time	
1300 - 1630 h	Workshop: Remote Sensing for Greenhouse Gas Monitoring	1300 - 1530 h	Hands-On 5G: Building and Testing a Stand-Alone 5G Network	1300 - 1730 h	Workshop: TinyML: A Compact Revolution in Engineering AI	1300 - 1600 h	Workshop: Signal Processing for Audio and Biomedical Applications	1300 - 1630 h	Workshop: Integrated Circuit Design - Digital and Analog Perspectives

Date	14-08-25	Paper ID	Topic	Track	Paper count
V1-Structural Engineering PG Room					
Track	Time				
	0745 - 0830 h		Onsite Registration & Opening Ceremony		16
T1-A	0830 - 0845 h	1571153909	Enhancing Combustion Performance in KNSU Solid Rocket Propellants: Experimental Study of Coconut Shell Charcoal as a Sustainable Additive	Mechanical Engineering Systems	
	0845 - 0900 h	1571154126	Comparative Study of Theoretical and Numerical Analysis to Evaluate the Aerodynamic Performance of a Helical Vertical Axis Wind Turbine	Mechanical Engineering Systems	
	0900 - 0915 h	1571154238	Development of Marine Grade Acrylonitrile-Butadiene-Styrene (ABS) Based Hull of an Underwater Drone	Mechanical Engineering Systems	
	0915 - 0930 h	1571154357	Monolithic 3D-Printed Three-Chamber Pneumatic Soft Gripper for Delicate Bra Cup Manipulation	Mechanical Engineering Systems	
	0930 - 0945 h	1571153957	Design of Glass Fiber Reinforced Composite Blades for a 1 kW Small-Scale Wind Turbine	Mechanical Engineering Systems	
	0945 - 1000 h		Tea		
T1-B	1000 - 1015 h	1571154257	Evaluating the Quality of Traditionally Peeled vs. Machine Peeled Cinnamon	Mechanical Engineering Systems	
	1015 - 1030 h	1571154364	Design and Development of a Regenerative Suspension System for Electric Vehicles	Mechanical Engineering Systems	
	1030 - 1045 h	1571154139	Monolithic TPU Flexure Joints for Confined-Space Tendon-Driven Robotic Arms	Mechanical Engineering Systems	
	1045 - 1100 h	1571143711	Automating the Lower Limb Gait Cycle for Transfemoral Amputee Prosthetics	Mechanical Engineering Systems	
	1100 - 1200 h		Keynote		
	1200 - 1300 h		Lunch		
T1-C / T6	1300 - 1315 h	1571154098	Design and Manufacturing Optimization of a High-Speed PCV Centrifuge Machine	Mechanical Engineering Systems	
	1315 - 1330 h	1571154551	A Numerical Investigation of the Sensitivity of the Oil Weathering Process to Ambient Conditions in Accidental Ocean Oil Spills	Mechanical Engineering Systems	
	1330 - 1345 h	1571154187	Design and Simulation of a Monolithic MEMS Platform for Single-Cell Injection with Integrated Gripping and Force Feedback	Mechatronics and Micro-mechatronics Systems	
	1345 - 1400 h	1571153729	MEMS-Based Capacitive Strain Sensor for Cervical Spinal Fusion Monitoring- Design and Optimization Approach	Mechatronics and Micro-mechatronics Systems	
	1400 - 1430 h		Tea		
T5	1430 - 1445 h	1571149174	Investigation of Drying Kinetics of Heat Pump Drying and Post-Drying Quality Parameters of Mango by Using Gliding Arc Plasma Discharge (GAPD) Pre-Treatment	Chemical and Process Engineering	
	1445 - 1500 h	1571153854	Kinetic Analysis of Dairy Sludge Pyrolysis Using the Coats-Redfern Method	Chemical and Process Engineering	
	1500 - 1515 h	1571153354	Machine Learning-Driven Discovery of Photocatalysts for Solar Hydrogen Production: Overcoming Bandgap Prediction Challenges with Transfer Learning	Chemical and Process Engineering	
	1515 - 1530 h				
	1530 - 1545 h				
	1545 - 1600 h				

			V2-Transportation Engineering PG Room		
Date	**14-08-25**	**Paper ID**	**Topic**	**Track**	**Paper count**
Track	**Time**				
	0745 - 0830 h		Onsite Registration & Opening Ceremony		15
T20	0830 - 0845 h	1571149675	A Unified Deep Learning Approach for the Segmentation of Breast Masses and Calcifications	Biomedical Engineering and Instrumentation	
	0845 - 0900 h	1571154060	A Clinically Interpretable Rule-Based Algorithm for Detection of Premature Ventricular Contractions	Biomedical Engineering and Instrumentation	
	0900 - 0915 h	1571141771	A Machine Learning Approach for Early Detection of Thyroid Disorders in Sri Lankan Women	Biomedical Engineering and Instrumentation	
	0915 - 0930 h	1571154268	Sinhala Language-Specific Vocal Biomarker Extraction for Parkinson's Diagnosis Using Machine Learning	Biomedical Engineering and Instrumentation	
	0930 - 0945 h	1571154380	Diabetes Mellitus Early Detection Using Machine Learning on Fingernail Images	Biomedical Engineering and Instrumentation	
	0945 - 1000 h				
T13	1000 - 1015 h		Tea		
	1015 - 1030 h	1571152205	Learning-Based Optimal ADC Bit Allocation in Quantized MIMO Systems	Communication and Signal Processing	
	1030 - 1045 h	1571153384	An Integrated Sound-Based Traffic Control System (Green Light) for Ambulance Prioritization at Urban Intersections	Communication and Signal Processing	
	1045 - 1100 h	1571149617	A Hybrid VLC/RF Indoor Localization with Supervised Learning	Communication and Signal Processing	
	1100 - 1200 h		Keynote		
	1200 - 1300 h		Lunch		
T15-A	1300 - 1315 h	1571141132	Relative Tsunami Vulnerability of Structural Materials Across Tsunami Events	Structural Engineering and Building Materials	
	1315 - 1330 h	1571149591	Detection of Multiple Structural Damage Through Modal Analysis: an Experimental and FE Approach	Structural Engineering and Building Materials	
	1330 - 1345 h	1571153679	Study on Methods of Testing Tensile Strength of Concrete	Structural Engineering and Building Materials	
	1345 - 1400 h	1571154186	Analysis of Bending Stiffness Reduction in Thin Woven Composites Under Large Curvatures	Structural Engineering and Building Materials	
	1400 - 1430 h		Tea		
T15-B	1430 - 1445 h	1571154460	Design-Aware Optimization of 2D Skeletal Structures Using Conditional Generative Adversarial Networks (cGANs)	Structural Engineering and Building Materials	
	1445 - 1500 h	1571154228	Evaluating Corrosion Propagation in Steel with Damaged Protective Coating	Structural Engineering and Building Materials	
	1500 - 1515 h	1571149733	Graphene Oxide Incorporated Silica Nanocomposite: Facile Low-Cost Synthesis for Application in Concrete and Cement Mortar Mixtures	Structural Engineering and Building Materials	
	1515 - 1530 h				
	1530 - 1545 h				
	1545 - 1600 h				

Date	14-08-25	Paper ID	Topic	Track	Paper count
			V3-Construction Management PG Room		
Track	**Time**				
	0745 - 0830 h		Onsite Registration & Opening Ceremony		18
T14	0830 - 0845 h	1571149668	Reconfigurable Hardware Design of NTT-Based Polynomial Multiplication Accelerator for Post Quantum Cryptography	Electronics, Control, and Instrumentation	
	0845 - 0900 h	1571144962	Design and Experimental Validation of a Non-Invasive Plasma Density Sensor for Plasma-Enhanced Process Reactors	Electronics, Control, and Instrumentation	
	0900 - 0915 h	1571154183	A Fuzzy-Adaptive Sliding Mode Control Strategy for Optimizing Control of Underwater Drone	Electronics, Control, and Instrumentation	
	0915 - 0930 h	1571142105	Modified Boundary Scan Cell for Faster Continuous Monitoring	Electronics, Control, and Instrumentation	
	0930 - 0945 h		Tea		
T12 /T22	0945 - 1000 h	1571149658	Optimisation of Washing Cycles to Enhance Pre-Processing of Coal Fly Ash as a Precursor for Wastewater Treatment Using Response Surface Methodology	Mining and Earth Resources Engineering	
	1000 - 1015 h	1571154080	Performance of Multi-Stage Triaxial Tests on Rock Deformation	Mining and Earth Resources Engineering	
	1015 - 1030 h	1571153907	Effect of Coir Husk Fiber on Rice Husk Ash and Cement Based Peat Stabilization	Geotechnical Engineering	
	1030 - 1045 h	1571154140	Exploring the Suitability of Fly Ash and Rice Husk Ash in One-Part Geopolymer: a Case Study for Sustainable, Low-Carbon Construction	Geotechnical Engineering	
	1045 - 1100 h	1571142011	Stability Analysis of Expansive Soil Slopes Stabilized with Geogrids	Geotechnical Engineering	
	1100 - 1200 h		Keynote		
	1200 - 1300 h		Lunch		
T8	1300 - 1315 h	1571151919	Brachiation Robot Inspired by Gibbon Dynamics: Insights for Control Across Irregular Bar Spacing and Heights	Robotics and Intelligent Systems	
	1315 - 1330 h	1571153981	Context Aware Trilingual Conversational Service Robot for Restaurant	Robotics and Intelligent Systems	
	1330 - 1345 h	1571154445	Development of a Dexterous Manipulator for Underwater Cleaning	Robotics and Intelligent Systems	
	1345 - 1400 h	1571154309	Implementing an Automatic Temperature Controller Based on Real-Time Fabric Classification for a Smart Ironing Appliance	Robotics and Intelligent Systems	
	1400 - 1430 h		Tea		
T21	1430 - 1445 h	1571147772	Optimizing Energy Efficiency in Cloud Environments Through Hybrid Workload Prediction Using CNN and LSTM	Software Engineering and Cloud Computing	
	1445 - 1500 h	1571154465	Intent Classification for Automated Software Deployment Plan Generation: a Transformer-Based Approach	Software Engineering and Cloud Computing	
	1500 - 1515 h	1571141996	Data Sovereignty in Multi Regional Identity Systems	Software Engineering and Cloud Computing	
	1515 - 1530 h	1571149759	A Comparative Analysis of OpenStack Autoscaling Engines: Evaluating Performance, Scalability, and Usability of Heat and Senlin Under Real-World Workload Patterns	Software Engineering and Cloud Computing	
	1530 - 1545 h	1571150137	ARGO-SLSA: Software Supply Chain Security in Argo Workflows	Software Engineering and Cloud Computing	
	1545 - 1600 h				

V4-Environmental Engineering PG Room

Date / Track	14-08-25 / Time	Paper ID	Topic	Track	Paper count
	0745 - 0830 h		Onsite Registration & Opening Ceremony		15
T9-A	0830 - 0845 h	1571153356	Enhancing Video Generation Based on Text-to-Image Diffusion Models Using a Multimodal Approach	Image Processing and Computer Vision	
	0845 - 0900 h	1571147873	Few-Shot Early Defect Detection in Industrial Manufacturing Using Explainable Siamese Networks	Image Processing and Computer Vision	
	0900 - 0915 h	1571154288	Unveiling Misalignment Fault Severities: A Novel SCD-CNN Framework for Rotating Machinery	Image Processing and Computer Vision	
	0915 - 0930 h	1571154371	A Comparative Analysis of Similarity-Based Retrieval for SVG Logos	Image Processing and Computer Vision	
	0930 - 0945 h	1571142342	Design of an Automated Visual Inspection Based Railway Track Fault Detection System	Image Processing and Computer Vision	
	0945 - 1000 h		Tea		
T9-B	1000 - 1015 h	1571149525	An AI-Driven Smart Mirror Application for Social Event-Based Fashion Recommendation and Facial Skin Health Analysis	Image Processing and Computer Vision	
	1015 - 1030 h	1571150044	Predictive Analytics for Tea Leaf Aging and Quality Degradation	Image Processing and Computer Vision	
	1030 - 1045 h	1571153937	A Binary Classification Model for Autofocus Determination in Microscopic Blood Smear Images	Image Processing and Computer Vision	
	1045 - 1100 h				
	1100 - 1200 h		Keynote		
	1200 - 1300 h		Lunch		
T4-A	1300 - 1315 h	1571153949	Sheath-Free E-Yarns Through Yarn Covering for Enhanced Knittability	Textile and Apparel	
	1315 - 1330 h	1571154100	Investigation on Nano-Structural Color for Fabric Printing Using Silica Nanoparticles	Textile and Apparel	
	1330 - 1345 h	1571152459	Fabrication of Microcapsules with n-Octadecane Core and Melamine-Formaldehyde Shell for Enhanced Thermoregulation in Textiles	Textile and Apparel	
	1345 - 1400 h	1571141911	Multi-Objective Parameter Optimization of Fabric Adhesive Bonding	Textile and Apparel	
	1400 - 1430 h		Tea		
T4-B	1430 - 1445 h	1571150365	Exploring the Application of Modular Product Development in Achieving Multiple Styling Options in Women's Pants	Textile and Apparel	
	1445 - 1500 h	1571154084	Investigate the Effect of Crosslinking Agents and Binders on the Binding Ability of Sandalwood Essential Oil with β-Cyclodextrin for the Retention of Fragrance on Cotton Fabric	Textile and Apparel	
	1500 - 1515 h	1571154127	A Machine Learning Approach for Generating the Crotch Curve in Customised Trouser Patterns	Textile and Apparel	
	1515 - 1530 h				
	1530 - 1545 h				
	1545 - 1600 h				

Date	14-08-25	Paper ID	Topic	Track	Paper count
Track	Time				
	0745 - 0830 h		Onsite Registration & Opening Ceremony		12
T3-A	0830 - 0845 h	1571154310	Utilizing Multilingual Encoders to Improve Large Language Models for Low-Resource Languages	Data Science and Artificial Intelligence	
	0845 - 0900 h	1571154432	Siamese Networks for Multilingual Classified Ad Matching	Data Science and Artificial Intelligence	
	0900 - 0915 h	1571154281	SinLlama - a Large Language Model for Sinhala	Data Science and Artificial Intelligence	
	0915 - 0930 h	1571142101	Orthogonal Activation with Implicit Group-Aware Bias Learning for Class Imbalance	Data Science and Artificial Intelligence	
	0930 - 0945 h	1571149665	Segment-Driven Corporate Report Summarization Using Positional-Aware Clustering and Hybrid Summarization	Data Science and Artificial Intelligence	
	0945 - 1000 h		Tea		
T3-B	1000 - 1015 h	1571154600	IYAL: Input Text Normalizer for Tamil Language	Data Science and Artificial Intelligence	
	1015 - 1030 h	1571145023	Predicting School Students' Academic Performance Using Ensemble Machine Learning Techniques	Data Science and Artificial Intelligence	
	1030 - 1045 h	1571149075	Classification of Sri Lankan Leafy Tea Grades Using Deep Learning	Data Science and Artificial Intelligence	
	1045 - 1100 h				
	1100 - 1200 h		Keynote		
	1200 - 1300 h		Lunch		
T17-A	1300 - 1315 h	1571142084	Can Machine Peeled Cinnamon Fulfil the Requirements of Ceylon Cinnamon Market?	Technology Management	
	1315 - 1330 h	1571141758	Service Process Improvement Through VSM of Lean Six Sigma: A Case Study	Technology Management	
	1330 - 1345 h	1571149763	AI Chatbots for Humanized Service Touch and Customer Satisfaction Towards Promoting AI-Enabled Banking	Technology Management	
	1345 - 1400 h	1571153776	Developing a Framework for Certification of ISO 9001 for the Electrical Equipment Manufacturing Industry in Sri Lanka	Technology Management	
	1400 - 1430 h		Tea		
T17-B	1430 - 1445 h				
	1445 - 1500 h				
	1500 - 1515 h				
	1515 - 1530 h				
	1530 - 1545 h				
	1545 - 1600 h				

V5 - To be Announced

Date	14-08-25	Paper ID	Topic	Track	Paper count
Track	**Time**				
	0745 - 0830 h		Onsite Registration & Opening Ceremony		16
T23-A	0830 - 0845 h	1571153518	Redesigning Supply Chains for Industry 5.0 in Developing Economies: A Research Agenda	Supply Chain, Logistics, and Mobility Engineering	
	0845 - 0900 h	1571154073	Barriers Influencing Application of Supply Chain Research in Practice: A Practitioners' Viewpoint Through a Fuzzy Delphi-AHP Approach	Supply Chain, Logistics, and Mobility Engineering	
	0900 - 0915 h	1571154313	Optimizing Delivery Logistics: a Comparative Study of Clustering Algorithms for Zoning Restaurant Orders	Supply Chain, Logistics, and Mobility Engineering	
	0915 - 0930 h	1571154506	Advancing UAV Implementation for Medical Supply Distribution: a Systematic Review of Current Practices and Future Directions	Supply Chain, Logistics, and Mobility Engineering	
	0930 - 0945 h	1571154020	Delphi-Driven Insights into Artificial Intelligence Implementation in Sustainable Supply Chains: Navigating Barriers and Strategic Enablers	Supply Chain, Logistics, and Mobility Engineering	
	0945 - 1000 h		Tea		
T23-B	1000 - 1015 h	1571153270	Influences on Undergraduate Enrollment and Career Perceptions: Study of Sri Lanka's Maritime Logistics Sector	Supply Chain, Logistics, and Mobility Engineering	
	1015 - 1030 h	1571154078	Blockchain for Information Sharing in Supply Chains: A Delphi Study	Supply Chain, Logistics, and Mobility Engineering	
	1030 - 1045 h	1571149488	A Sector-Specific Supplier Selection Framework for Airport City Development	Supply Chain, Logistics, and Mobility Engineering	
	1045 - 1100 h	1571154379	Evaluating Pedestrian Behaviors and Safety Risks at Unsignalized Mid-Block Crossings in Colombo	Supply Chain, Logistics, and Mobility Engineering	
	1100 - 1200 h		Keynote		
	1200 - 1300 h		Lunch		
T19-A	1300 - 1315 h	1571154575	Leveraging Vehicular Test Databases to Develop a National Emissions Prediction Model: a Case Study for Sri Lanka	Transportation Engineering	
	1315 - 1330 h	1571154685	NOx Emission Estimation and Prediction for Newly Registered Motor Cars Using Type Approval Data and Machine Learning Techniques	Transportation Engineering	
	1330 - 1345 h	1571153647	Enhancing Subgrade Strength of Rural Roads Constructed on Soft Soils Using Varied Grades of Coir Fiber	Transportation Engineering	
	1345 - 1400 h	1571154025	Performance Evaluation of Aspha-Min Modified Warm Mix Asphalt	Transportation Engineering	
	1400 - 1430 h		Tea		
T19-B	1430 - 1445 h	1571154660	Robustness-Based Optimization Model for Post-Flood Road Network Recovery	Transportation Engineering	
	1445 - 1500 h	1571154349	Enhancing Traffic Signal Systems in Sri Lanka Using Artificial Intelligence	Transportation Engineering	
	1500 - 1515 h	1571154389	Investigation of Activated Carbon-Modified Bitumen Using Coconut Charcoal	Transportation Engineering	
	1515 - 1530 h				
	1530 - 1545 h				
	1545 - 1600 h				

V6 - To be Announced

Date	15-08-25	Paper ID	Topic	Track	Paper count
Track	Time				
	0745 - 0830 h		Onsite Registration & Opening Ceremony		11
T16-A	0830 - 0845 h	1571152907	Assessing Compound Hydrometeorological Extremes and Their Transformative Impacts on Streamflow in a Changing Climate	Hydraulics and Environmental Engineering	
	0845 - 0900 h	1571154190	Machine Learning & IoT Based Water Distribution System for Reservoirs in Sri Lanka	Hydraulics and Environmental Engineering	
	0900 - 0915 h	1571154517	Assessing the Performance of HEC-HMS Model vs. Machine Learning Algorithms in Predicting River Discharge	Hydraulics and Environmental Engineering	
	0915 - 0930 h	1571149309	Experimental Investigation and CFD Modelling for Enhancing Pipeline Performance for High-Concentration Fly Ash Slurry	Hydraulics and Environmental Engineering	
	0930 - 0945 h	1571154226	Weighted Multi-Model Ensemble Approach for Robust Monsoon River Flow Projections	Hydraulics and Environmental Engineering	
	0945 - 1000 h		Tea		
T16-B	1000 - 1015 h	1571153876	Dynamic Modeling and Simulation of the Effect of Multiple Inhibition in Anaerobic Digestion of Fish Waste	Hydraulics and Environmental Engineering	
	1015 - 1030 h	1571154320	Assessing the Impact of Tree Canopy on Interception Loss in a Small Catchment	Hydraulics and Environmental Engineering	
	1030 - 1045 h	1571154387	Artificial Intelligence Techniques in Basin Hydrology and Material Flow Analysis and Their Applicability to Sri Lankan River Basins	Hydraulics and Environmental Engineering	
	1045 - 1100 h				
	1100 - 1200 h		Keynote		
	1200 - 1300 h		Lunch		
T16-C	1300 - 1315 h	1571154527	Investigating Land Cover Effects on Tsunami Overland Flow Dynamics Using HEC-RAS Model	Hydraulics and Environmental Engineering	
	1315 - 1330 h	1571154075	Deep Learning-Based Coral Reef Segmentation: A Satellite Imagery Study of the Trincomalee District	Hydraulics and Environmental Engineering	
	1330 - 1345 h	1571154444	Optimizing Flood Risk Management Through Nature-Based Solutions (NBS): A Case Study in the Attanagalu Oya Basin, Sri Lanka	Hydraulics and Environmental Engineering	
	1345 - 1400 h				
	1400 - 1415 h				
	1415 - 1445 h		Tea		
	1445 - 1500 h				
	1500 - 1515 h				
	1515 - 1530 h				
	1530 - 1545 h				
	1545 - 1600 h				

V2-Transportation Engineering PG Room

Date	15-08-25	Paper ID	Topic	Track	Paper count
Track	**Time**				
	0745 - 0830 h		Onsite Registration		13
T10-A	0830 - 0845 h	1571154382	Electrospun PVA Nanofibers Reinforced with Cotton-Derived Cellulose Nanocrystals: a Sustainable Route to High-Performance Nanocomposites	Materials Science and Engineering	
	0845 - 0900 h	1571154454	A Theoretical Model for Thrombin Generation Kinetics in the Initial Phase of the Extrinsic Pathway of Human Blood Coagulation	Materials Science and Engineering	
	0900 - 0915 h	1571154314	Development of an Optical Particle Counter	Materials Science and Engineering	
	0915 - 0930 h	1571154451	Tailoring ZnO Nanostructure for Enhanced Capacitive UV Response	Materials Science and Engineering	
	0930 - 0945 h	1571154462	Eco-Friendly Approach to Cellulose Recovery: Extraction and Characterization from Salvinia Molesta	Materials Science and Engineering	
	0945 - 1000 h		Tea		
T10-B	1000 - 1015 h	1571154367	Development of Sustainable Cement-Based Material for Additive Manufacturing	Materials Science and Engineering	
	1015 - 1030 h	1571154037	Preparation of High-Capacitance Nitrogen-Doped Graphene Oxide from Graphene Derived from Sri Lankan Vein Graphite	Materials Science and Engineering	
	1030 - 1045 h	1571154273	GO-PES Membrane for Industrial Dye Effluent Water Purification	Materials Science and Engineering	
	1045 - 1100 h				
	1100 - 1200 h		Keynote		
	1200 - 1300 h		Lunch		
T10-C	1300 - 1315 h	1571154618	Modelling and Simulation of a Vertically Integrated Piezoelectric Nanogenerator Designed with Nanowire Arrays in Vibration Mode	Materials Science and Engineering	
	1315 - 1330 h	1571149524	Room Temperature Chlorine Gas Sensor Based on Alpha-Titanium Phosphate Synthesized from Ilmenite Beach Sand	Materials Science and Engineering	
	1330 - 1345 h	1571154540	Tribological Behavior of Natural Rubber: a Multivariate Analysis Using Friction and Mechanical Properties	Materials Science and Engineering	
	1345 - 1400 h	1571154601	Electrochemically Exfoliated Nanostructured-Graphite Nanofluids for Heat Transfer Applications	Materials Science and Engineering	
	1400 - 1415 h	1571154353	Design and Simulation of a Paraffin-Based Solar Thermal Energy Storage System for Enhanced Indoor Thermal Comfort	Materials Science and Engineering	
	1415 - 1445 h		Tea		
	1445 - 1500 h				
	1500 - 1515 h				
	1515 - 1530 h				
	1530 - 1545 h				
	1545 - 1600 h				

V3-Construction Management PG Room

Date	15-08-25	Paper ID	Topic	Track	Paper count
Track	**Time**				
	0745 - 0830 h		Onsite Registration		10
T7-A	0830 - 0845 h	1571142221	Co-Pyrolysis of Textile Dyeing Sludge with Waste Cooking Oil: A Dual-Waste Management Approach for Producing Efficient Dye Adsorbent	Sustainable Energy & Environment	
	0845 - 0900 h	1571153817	Modeling Elephant Migration and Deforestation Hotspots in Sri Lanka's Dry Forests Using Hybrid CNN-LSTM Architectures and Cellular Automata	Sustainable Energy & Environment	
	0900 - 0915 h	1571141723	Comparative Effects of Ground Calcium Carbonate and Marble Dust on Morphological and Yield Responses of Corn (Zea Mays) in Acidic Soils	Sustainable Energy & Environment	
	0915 - 0930 h	1571154003	Strategic Decision Framework for Sustainable Retrofitting: Decarbonizing Small and Medium-Sized Hotels in Tropical Monsoon Climates	Sustainable Energy & Environment	
	0930 - 0945 h				
	0945 - 1000 h		Tea		
T7-B	1000 - 1015 h	1571153473	Exploring the Potential of Textile Industry Combustion Residues as Sustainable Adsorbents: A Study on Thermal Treatment -Induced Stabilization and Methylene Blue Removal Efficiency	Sustainable Energy & Environment	
	1015 - 1030 h	1571154439	Strategic Significance of Establishing a Sri Lankan Ocean Test Center (SLOTC) for Advancing Marine Energy Innovations	Sustainable Energy & Environment	
	1030 - 1045 h	1571153906	A Demand-Responsive Tariff Algorithm for Islanded Microgrid Electricity Markets in Sri Lanka	Sustainable Energy & Environment	
	1045 - 1100 h				
	1100 - 1200 h		Keynote		
	1200 - 1300 h		Lunch		
T18	1300 - 1315 h	1571153223	A Data-Driven Queueing Approach for Capacity Planning of a Burn Center	Engineering Mathematics and Statistics	
	1315 - 1330 h	1571153535	Engagement in Professional Tasks with Generative AI Versus Cognitive Skills: a Case of IT Industry in Sri Lanka	Engineering Mathematics and Statistics	
	1330 - 1345 h	1571141338	Optimization of Transport Networks: with Special Reference to Fluctuating Demand for Fisheries	Engineering Mathematics and Statistics	
	1345 - 1400 h				
	1400 - 1415 h				
	1415 - 1445 h		Tea		
	1445 - 1500 h				
	1500 - 1515 h				
	1515 - 1530 h				
	1530 - 1545 h				
	1545 - 1600 h				

V4-Environmental Engineering PG Room

Date	15-08-25	Paper ID	Topic	Track	Paper count
Track	Time				
	0745 - 0830 h		Onsite Registration		6
T9-C	0830 - 0845 h	1571154256	Lifelike Virtual Reality Experiences Using Shape-Adaptive Haptic Gloves with Digital Twin	Image Processing and Computer Vision	
	0845 - 0900 h	1571142364	Enhanced SCanNet with CBAM and Dice Loss for Semantic Change Detection	Image Processing and Computer Vision	
	0900 - 0915 h	1571149213	Real-Time Cloud Detection, Tracking, and Trajectory Forecasting Using Deep Learning and Sky Imagery	Image Processing and Computer Vision	
	0915 - 0930 h				
	0930 - 0945 h				
	0945 - 1000 h		Tea		
T9-D	1000 - 1015 h	1571154143	Transfer Learning-Based Approach for Improving Cinnamon Diseases and Pests Management	Image Processing and Computer Vision	
	1015 - 1030 h	1571154286	Vision-Driven Diagnostic Intelligence Through Deep Learning for Retinal Health Analytics	Image Processing and Computer Vision	
	1030 - 1045 h	1571149338	Precise MRI Slice Extraction Along the Anterior Commissure-Posterior Commissure (AC-PC) Axis: a Standardized Approach	Image Processing and Computer Vision	
	1045 - 1100 h				
	1100 - 1200 h		Keynote		
	1200 - 1300 h		Lunch		
T9-E	1300 - 1315 h				
	1315 - 1330 h				
	1330 - 1345 h				
	1345 - 1400 h				
	1400 - 1415 h				
	1415 - 1445 h		Tea		
	1445 - 1500 h				
	1500 - 1515 h				
	1515 - 1530 h				
	1530 - 1545 h				
	1545 - 1600 h				

Date	15-08-25	Paper ID	Topic	Track	Paper count
Track	**Time**				
	0745 - 0830 h		Onsite Registration		3
T3-C	0830 - 0845 h	1571152790	Unified Deep Convolutional Network for Robust and Highly Generalized Speaker Clustering	Data Science and Artificial Intelligence	
	0845 - 0900 h	1571154207	EdgeCare: Privacy-Preserving Medical Advising System on Mobile Devices	Data Science and Artificial Intelligence	
	0900 - 0915 h	1571154315	Advancing Retrieval-Augmented Generation for Financial Question Answering	Data Science and Artificial Intelligence	
	0915 - 0930 h				
	0930 - 0945 h				
	0945 - 1000 h		Tea		
T3-D	1000 - 1015 h				
	1015 - 1030 h				
	1030 - 1045 h				
	1045 - 1100 h				
	1100 - 1200 h		Keynote		
	1200 - 1300 h		Lunch		
	1300 - 1315 h				
	1315 - 1330 h				
	1330 - 1345 h				
T3-E	1345 - 1400 h				
	1400 - 1415 h				
	1415 - 1430 h				
	1430 - 1500 h		Tea		
	1500 - 1515 h				
	1515 - 1530 h				
	1530 - 1545 h				
	1545 - 1600 h				

V5 - To be Announced

V6 - To be Announced					
Date	**15-08-25**	**Paper ID**	**Topic**	**Track**	**Paper count**
Track	**Time**				
	0745 - 0830 h		Onsite Registration		5
T2-A	0830 - 0845 h	1571145924	Seamless Transition Between Operating Modes in a Microgrid Cluster	Power Systems, Electrical Machines and High Voltage Engineering	
	0845 - 0900 h	1571144723	Optimal Integration of Distributed Generators in Medium-Voltage Radial Distribution Systems Using Enhanced Particle Swarm Optimization Algorithm	Power Systems, Electrical Machines and High Voltage Engineering	
	0900 - 0915 h	1571154418	Modelling and Parameter Tuning of the Governor System at Lakvijaya Power Station for Turbine Load Control Mode of Operation for Enhanced Stability	Power Systems, Electrical Machines and High Voltage Engineering	
	0915 - 0930 h	1571154442	Hot Spot Temperature Modeling in Power Transformers Using Variation in Load and Ambient Temperature	Power Systems, Electrical Machines and High Voltage Engineering	
	0930 - 0945 h	1571153603	A Smart Load Shedding System for Appliances to Improve Power System Stability in Smaller Isolated Grids	Power Systems, Electrical Machines and High Voltage Engineering	
	0945 - 1000 h		Tea		
T2-B	1000 - 1015 h				
	1015 - 1030 h				
	1030 - 1045 h				
	1045 - 1100 h				
	1100 - 1200 h		Keynote		
	1200 - 1300 h		Lunch		
	1300 - 1315 h				
	1315 - 1330 h				
	1330 - 1345 h				
	1345 - 1400 h				
	1400 - 1415 h				
	1415 - 1445 h		Tea		
	1445 - 1500 h				
	1500 - 1515 h				
	1515 - 1530 h				
	1530 - 1545 h				
	1545 - 1600 h				