

Date	Session	Index	Time	Track	Paper title
3rd July	Session W.1.1	1	08:30	Civil Engineering 1	A Simplified Nonlinear Method for Progressive Collapse Analysis of Moment Resisting Frames
	Session W.1.1	2	08:45		Determination of Optimum Design Parameters for Semi Rigid Pavement
	Session W.1.1	3	09:00		Applicability of Calcium Carbide Residues for the Improvement of Soft Peaty Clay
	Session W.1.1	4	09:15		Spot Damage Estimation of Framed Structures Using Modal Data
	Session W.1.1	5	09:30		Comparison of Damage Values Used in Different Flood Modelling Studies
	Session W.1.1	6	09:45		Study on Strength and Durability of Cellular Cement-Fly Ash Blocks
	Session W.1.2	1	08:30	Big Data, Machine Learning and Cloud Computing	Video Colorization Data Set and Benchmark
	Session W.1.2	2	08:45		Generative Adversarial Network (GAN) Based Anomaly Detection in Industrial Software Systems
	Session W.1.2	3	09:00		ACTSEA: Annotated Corpus for Tamil & Sinhala Emotion Analysis
	Session W.1.2	4	09:15		Taxi Trip Travel Time Prediction with Isolated XGBoost Regression
	Session W.1.2	5	09:30		Semantic Information Retrieval Based on Topic Modeling and Community Interests Mining
	Session W.1.2	6	09:45		GI-Net: Anomalies Classification in Gastrointestinal Tract Through Endoscopic Imagery with Deep Learning
	Session W.1.3	1	08:30	Material Science and Engineering 1	Development of Piezoelectric Vibration Sensor to Analyze Building Vibration
	Session W.1.3	2	08:45		Structural Analysis of Cellulose Fibers and Rice Straw Ash Derived from Sri Lankan Rice Straw
	Session W.1.3	3	09:00		Identifying Better Fitting Function for Asymmetric Differential Thermo Gravimetric Signal Analysis
	Session W.1.3	4	09:15		Dyeing of Cotton Fabric with a Natural Dye Extracted from Floral Part of Acalypha Hispida Plant
	Session W.1.3	5	09:30		Microstructural Rearrangements of MDI Based Polyurethanes in the Presence of UV
	Session W.1.3	6	09:45		Influence of Surface Modification of Cellulose Nanofibers (CNF) as the Reinforcement of Polypropylene Based Composite
	Session W.1.4	1	08:30		Robust Texture Based Biomass Estimation of Small Fronded Floating Aquatic Plants Using J-Values

	Session W.1.4	2	08:45	Image, Vision and Signal Processing and Internet of Things and Applications	Real-time Human Detection and Tracking in Infrared Video Feed
	Session W.1.4	3	09:00		Texture Dominant Approach for Identifying Ayurveda Herbal Species Using Flowers
	Session W.1.4	4	09:15		An EEG Based Channel Optimized Classification Approach for Autism Spectrum Disorder
	Session W.1.4	5	09:30		Real-Time FPGA-Based Multi-Beam Directional Sensing of 2.4 GHz ISM RF Sources
	Session W.1.4	6	09:45		Beacon Placement Algorithm for Hybrid Indoor Positioning with Wi-Fi and Bluetooth Low Energy
	Session W.2.1	1	13:30	Civil Engineering 2	Application of Social Network Analysis (SNA) to Identify Communication Network Associated with Multi-Hazard Early Warning (MHEW) in Sri Lanka
	Session W.2.1	2	13:45		Nonlinear Bending Response of Two-Ply Plain Woven Carbon Fibre Composites
	Session W.2.1	3	14:00		An Estimation of Storm Surge Heights of Colombo Coastline
	Session W.2.1	4	14:15		Strategic Alliances for the Sri Lankan Construction Industry - a Study of Best Fit Partners
	Session W.2.1	5	14:30		SWOT Analysis for Large Scale Contractors of Sri Lanka
	Session W.2.1	6	14:45		Performance Comparison of Prefabricated Building Construction Projects vs. Traditional On-site Construction Projects
	Session W.2.2	1	13:30	Chemical and Process Engineering 1	Genetic Algorithm Tuned PID Controllers for Multivariable Level Control System
	Session W.2.2	2	13:45		Kinetics and Mathematical Modeling of Drying of Parboiled Paddy in a Packed Bed Dryer
	Session W.2.2	3	14:00		Study on Bedplate Configuration for Fluidizing Orthodox Broken Type Tea
	Session W.2.2	4	14:15		Kinetic Modeling of Dry Anaerobic Co-Digestion of Lignocellulosic Biomass
	Session W.2.2	5	14:30		Flash Drying of Coir Pith as an Alternative to Sun Drying
	Session W.2.2	6	14:45		
	Session W.2.3	1	13:30		Capacity Credit Evaluation of Renewable Power Generation Using Non Sequential Monte Carlo Simulation
	Session W.2.3	2	13:45		Development of a Programmable Mechanical Motor Loading Unit Using a DC Motor

	Session W.2.3	3	14:00	Power Systems, Electrical Machines and High Voltage Engineering and Electronics, Control and Automation	Smart Human Centric LED Lighting Control for Domestic Applications
	Session W.2.3	4	14:15		Design and Implementation of an Automated Load Scheduling and Monitoring System
	Session W.2.3	5	14:30		A 3D Geometry-Based Spatial Correlation Model for MIMO Channels
	Session W.2.3	6	14:45		Power-Aware High-Level Synthesis Flow for Mapping FPGA Designs
	Session W.2.4	1	13:30	Transportation Engineering and Logistics 1	Factors Affecting the Effectiveness of Communication Tools Used in Sri Lankan Export Apparel Supply Chains
	Session W.2.4	2	13:45		Investigating the Applicability of Absorbed Emulsion Content on Tack Coat Application in Field Conditions
	Session W.2.4	3	14:00		Minimize Nearby Structure Damage Issues in Road Construction
	Session W.2.4	4	14:15		Pavement Maintenance Management System for Low Volume Roads in Sri Lanka
	Session W.2.4	5	14:30		Evaluation of Optimum Service Area for Bulk Depots for Petroleum Distribution
	Session W.2.4	6	14:45		Augmented Reality in Warehouse Operations: Possibilities and Dynamics in Sri Lankan Context
	Session W.3.1	1	15:45	Technology Management 1	Exploring the Effectiveness of Search Engine Optimization Tactics for Dynamic Websites in Sri Lanka
	Session W.3.1	2	16:00		Evaluation of Electronic Document Management (EDM) Systems for Construction Organizations
	Session W.3.1	3	16:15		The Impact of Client Involvement Towards Agile Project Success in Sri Lankan Software Industry
	Session W.3.1	4	16:30		Towards an Effective Entrepreneurial Ecosystem in Higher Education Experience of a South Asian Technological University
	Session W.3.1	5	16:45		Policy Framework and Recommendations to Minimize the Usage of Stolen and Counterfeit or Substandard Mobile Communication Devices
	Session W.3.1	6	17:15		Generalised Framework for Automated Conversational Agent Design via QFD
	Session W.3.2	1	15:45		Oil Droplet Size Model for Ocean Surface Oil Spills Impact of Breaking Wave Height and Oil Properties

	Session W.3.2	2	16:00	Environmental Engineering	Water Quality Deterioration in the Malwathu Oya Basin, Sri Lanka and the Need for Physics-based Modelling
	Session W.3.2	3	16:15		Development of an Enzymatic Hydrolysis Pre-treatment Strategy to Improve Batch Anaerobic Digestion of Wastewater Generated in Desiccated Coconut Processing Plants
	Session W.3.2	4	16:30		Use of Ultra-Violet Assisted Titanium Dioxide Photocatalysis for the Removal of Di-2-Ethylhexyl Phthalate (DEHP) from Industrial Wastewaters
	Session W.3.2	5	16:45		Effect of pH and External Electron Donor on Mesophilic Sulfate Reduction During Start-Up of Anaerobic Digesters Treating Skim Latex Wastewater
	Session W.3.2	6	17:00		Sustainable Material for 3D Printing in Sri Lanka
	Session W.3.3	1	15:45	Material Science and Engineering 2	Investigation on Self-Discharge Mechanism of Neutral Aqueous Electrolyte Based Electric Double Layer Supercapacitor
	Session W.3.3	2	16:00		Computational Study of CH ₃ NH ₃ BiI ₃ as a Lead Free Halide Perovskite
	Session W.3.3	3	16:15		Lead Free Solder Compatibility Improvement on Nichrome Alloy Through Contact Angle Modification
	Session W.3.3	4	16:30		Improvement of Toner Printing on Polyethylene Terephthalate Based Transparency Sheets Using Atmospheric Plasma
	Session W.3.3	5	16:45		Development of a Photosensor Based on Photo Dielectric Effect of Cadmium Sulphide
	Session W.3.3	6	17:15		Fabrication and Characterization of Polypropylene - Microcrystalline Cellulose Based Composites with Enhanced Compatibility
	Session W.3.4	1	15:45	Special Session on Process Automation in the 21st Century and Smart Sensing Applications, Hardware, Software Systems and Technologies	Process Parameter Estimation and Temperature Control of a Reactor with High Thermal Inertia
	Session W.3.4	2	16:00		Adaptive Model Predictive Control with Successive Linearization for Distillate Composition Control in Batch Distillation
	Session W.3.4	3	16:15		Interactive Learning Platform for Programmable Logic Controllers with a Web Application
	Session W.3.4	4	16:30		Achieving Value from Process Intensification Through Better Process Control
	Session W.3.4	5	16:45		A Study on Breathing and Heartbeat Monitoring System During Sleeping Using Multi-Piezoelectric Elements

	Session W.3.4	6	17:00		Autonomous Cloud Robotic System for Smart Agriculture
4th July	Session T.1.1	1	09:00	Civil Engineering 3	Study on Development of Arching Action of Sand Using an Earth Pressure Cell
	Session T.1.1	2	09:15		Analysis of the Performance of Existing Wall Finishers to Enhance the Durability of Different Walling Materials Against Rain Surface Erosion
	Session T.1.1	3	09:30		Evaluating the Applicability of the "Hospital Safety Index Guide" for the Sri Lankan Context
	Session T.1.1	4	09:45		An Activity Analysis to Investigate the Root Causes of Worker Productivity Losses in Sri Lankan Building Construction Projects
	Session T.1.1	5	10:00		A Framework to Develop Multi-Hazard Maps to Identify the Natural Hazards Which Affect the Safety of Sri Lankan Hospitals
	Session T.1.1	6	10:15		Investigation on Properties of Cellular Lightweight Concrete Blocks with Bottom Ash
	Session T.1.2	1	09:00	Mechanical Engineering Systems	A Novel Fabrication Method for Rapid Prototyping of Soft Structures with Embedded Pneumatic Channels
	Session T.1.2	2	09:15		Effect of Window Arrangement on Controlling the Smoke Spread in a Refuge Floor
	Session T.1.2	3	09:30		Work-Activities and Compatible Ranges of Movement to Assess the Capability of People with Physical Disabilities to Enhance Employability
	Session T.1.2	4	09:45		A Hybrid Powering Mechanism for a Transtibial Robotic Prosthesis
	Session T.1.2	5	10:00		Packed Column with Wet Scrubber for Boiler Exhaust Purification
	Session T.1.2	6	10:15		
	Session T.1.3	1	09:00	Power Systems, Electrical Machines and High Voltage Engineering 1	Remote Monitoring Tool for Condition Assessment of Power Transformers
	Session T.1.3	2	09:15		A Mathematical Model to Determine the Temperature Distribution of a Distribution Transformer
	Session T.1.3	3	09:30		SOC Based Multi-Mode Battery Energy Management System for DC Microgrids
	Session T.1.3	4	09:45		MPPT Technique Based on Perturb and Observe Method for PV Systems Under Partial Shading Conditions
	Session T.1.3	5	10:00		Low Voltage DC Microgrid Control Strategy Using Single Phase DQ Transformation

	Session T.1.3	6	10:15		Effect of the Shape of the Solid Insulators on Creeping Discharge Propagation Under AC Voltages
	Session T.1.4	1	09:00	Transportation Engineering and Logistics 2	Evaluation of Accuracy of the Infrared Traffic Logger Under Mix Traffic Condition
	Session T.1.4	2	09:15		A GIS Based Methodology to Demarcate Modified Traffic Analysis Zones in Urban Areas
	Session T.1.4	3	09:30		Customer Perception on Bandaranaike International Airport Duty Free Segment
	Session T.1.4	4	09:45		The Feasibility of Establishing Electric Vehicle Charging Stations at Public Hotspots in Sri Lanka
	Session T.1.4	5	10:00		Absorbing Markov Chain Approach to Modelling Disruptions in Supply Chain Networks
	Session T.1.4	6	10:15		Improving the Efficiency of an Intersection Through Traffic Signal Phasing Arrangement When No Separate Right Turn Lanes Available
	Session T.1.4	7	10:30		Evaluation of the Impact of Operational Factors on Aircraft Excursion Risk at High Speed Exits
	Session T.2.1	1	13:30	Biomedical Engineering and Instrumentation and Technology Management	Compression Fatigue and Stress Relaxation Properties of Single Network Polyacrylamide Hydrogels
	Session T.2.1	2	13:45		A Rule-Based System for ADHD Identification Using Eye Movement Data
	Session T.2.1	3	14:00		Development of a Surface Muscle Pressure Monitoring System for Robotic Wearable Devices
	Session T.2.1	4	14:15		Detection of Red Lesions in Retinal Images Using Image Processing and Machine Learning Techniques
	Session T.2.1	5	14:30		Impact of Emotional Intelligence on Strategic Management of Technology and Organizational Performance of the Banking Sector in Sri Lanka
	Session T.2.1	6	14:45		Open Innovation Driven Absorptive Capacity Towards Customer Functional Value Creation: A Case in the Sri Lankan ICT Sector SMEs
	Session T.2.2	1	13:30	Chemical and Process Engineering	Influence of Enzyme and Chemical Pretreatment Processes on the Colours of Banana Fibres
	Session T.2.2	2	13:45		Torrefaction of Urban Bio-Waste in Sri Lanka

	Session T.2.2	3	14:00	Chemical and Process Engineering, Sustainable Energy and Micro/Nano Electromechanical Systems, Mechatronics and Microelectronics	Assessment of Spallart Almaras Turbulence Model for Numerical Evaluation of Ceiling Fan Performance
	Session T.2.2	4	14:15		Effect of Different Pretreatment Methods on Lipid Yield and Biodiesel Quality of Desmodemus Sp. Isolated from Sri Lanka
	Session T.2.2	5	14:30		Improving the Performance of Lead Acid Batteries Using Nano-Technology
	Session T.2.3	1	13:30	Material Science and Engineering 3	Development of Graphene Oxide Based Capacitive Gas Sensor for Selective Detection of NO2
	Session T.2.3	2	13:45		Effect of Corrosion Surface Topography on Fatigue Life of Low-Carbon Steel
	Session T.2.3	3	14:00		Effect of Carbon Content on the Correlation Between Ultrasonic Attenuation and Corrosion of Plain Carbon Steels
	Session T.2.3	4	14:15		Development of Biodegradable Packaging Materials Using Polylactic Acid (PLA) and Locally Extracted Starch
	Session T.2.3	5	14:30		Extraction and Characterization of Nano Crystalline Cellulose (NCC) from Sri Lankan Agricultural Waste
	Session T.2.4	1	13:30	Robotics and Control	Development of Wearable Fingertip Tactile Display Driven by Bowden Cables
	Session T.2.4	2	13:45		Elderly Supportive Intelligent Wheelchair
	Session T.2.4	3	14:00		Aerial Image Matching Based Relative Localization of a UAV in Urban Environments
	Session T.2.4	4	14:15		Development of a Robotic Manipulator to Be Used in Multirotor Aerial Vehicle
	Session T.3.1	1	15:30	Civil Engineering 4	Analysis of Stability Enhancement of Soldier Pile Retaining Wall
	Session T.3.1	2	15:45		An Experimental Investigation on Shaft Resistance of Cast In-Situ Bored Piles in Intact Rock
	Session T.3.1	3	16:00		Significance of Spatial Variability in Precipitation for Stream Flow Modeling in Maha Oya River Basin, Sri Lanka
	Session T.3.1	4	16:15		Finite Element Modelling on Flexural Performance of CFRP Strengthened Reinforced Concrete Curved Beams
	Session T.3.1	5	16:30		Rainfall Variability and Effect of Different Spatial Interpolation Methods on Streamflow Modelling in Kalu Ganga Basin, Sri Lanka

	Session T.3.1	6	16:45		Effect of Different Methods for Spatial Interpolation of Rainfall Data for Hydrological Modeling in a Dry Zone basin-Mi Oya Basin Sri Lanka
	Session T.3.1	7	17:00		Detection and Estimation of Damage in Framed Structures Using Modal Data
	Session T.3.2	1	15:30	Software Engineering	A Smart Telemedicine System with Deep Learning to Manage Diabetic Retinopathy and Foot Ulcers
	Session T.3.2	2	15:45		An Adapter Architecture for Heterogeneous Data Processing in Bioinformatics Pipelines
	Session T.3.2	3	16:00		A Framework for Adaptive User Interface Generation Based on User Behavioural Patterns
	Session T.3.2	4	16:15		Rule-Based Recommendation System for Phylogenetic Inference
	Session T.3.2	5	16:30		Ontology Based Software Design Documentation for Design Reasoning
	Session T.3.3	1	15:30	Textile and Apparel	Investigation of Physical Properties of Banana Fiber Extracted from Ambun (AAA) Cultivar
	Session T.3.3	2	15:45		The Effect of Panel Parameters and Heat Setting Temperature on Thermal Shrinkage of Heat Cured Polyester Plain Knitted Fabric Panels
	Session T.3.3	3	16:00		Flame Retardant Synthetic Fabrics by Low Pressure Plasma Technology
	Session T.3.3	4	16:15		Evaluation of Single Jersey Knitted Fabric Drape Behaviour
	Session T.3.3	5	16:30		Design and Fabrication of an Automatic Tension Monitoring and Regulation System for Needle Thread
	Session T.3.3	6	16:45		Industry 4.0 Elements and Analytics for Garment Assembly Production Lines
	Session T.3.4	1	15:30	Mining and Earth Resources Engineering, and Engineering Mathematics and Statistics	Spatial and Temporal Variation of Runoff Trend in Sri Lanka During the past Decades
	Session T.3.4	2	15:45		Elemental and Mineralogical Analysis of Beachrocks in Southern Coastal Region Sri Lanka
	Session T.3.4	3	16:00		Upgrading Low Grade Quartz Upto 99+ Quartz by Chemical Leaching
	Session T.3.4	4	16:45		A Statistical Appraisal on Accuracy of Smartphone Location Services: A Case Study at the University of Moratuwa, Sri Lanka