MERS 2025 - Symposium Schedule (23.01.2026)

Time	Venue	Session	
08.30 - 09.00 h	MELR4 - New Building	Onsite Registration	
09.00 - 09.30 h		Opening Ceremony and Welcome Address	
09.30 - 10.00 h		**Keynote speech 01 by Prof. Van Dau: "Electrohydrodynamics for biomedical applications"**	
10.00 - 10.30 h		Refreshments	
10.30 - 12.30 h		**Oral Presentations - Sequential**	
		Paper ID	**Abstract Title**
		43	Abnormal Motor Sound Detection in Industrial Equipment Using YOLOv8 and MFCC Features
		41	Semi-Automated Machine for Eco Friendly Bamboo Straws Production
		40	Encoder-Only Regime-Aware Slip Characterization for Wheeled Robots via Inter-Wheel Disagreement
		30	Optimizing Image preprocessing parameters for Microscopy smear Images
		28	Design and Development of a Centrifugal Lubrication System for a Wankel Rotary Engine
		4	Wing Flutter Boundary Estimation
		11	Design And Development of a Small Scale Helical Vertical Axis Wind Turbine to Improve Aerodynamic Performance
12.30 - 13.30 h	Ground Floor - New Building	Lunch	
13.30 - 15.30 h	MELR4 - New Building	**Poster Presentations - Parallel**	
		Paper ID	**Abstract Title**
		1	Life Cycle Assessment of Ti-6Al-4V Aerospace Components: Comparing Conventional Machining and Wire Arc Additive Manufacturing with Weight Reduction Potential
		5	Techno-Economic Feasibility Assessment of Energy Storage System Configurations for Grid-connected Solar PV for the Southern Province of Sri Lanka
		6	Linear Matrix Formulation for Directional Tangency Constraints in Parametric Curve Design
		7	Design and Fabrication of a Crusher Machine for the Recycling of Fiberglass Boat Waste
		9	Failure modes analysis of reactive multilayer nanofoils for bonding in IGBT modules
		16	Analytical Framework for Structural Evaluation of an Unmanned Glider Wing Airframe
		17	Design of a Vibration-Based Flour Sifter Machine for SMEs in Northern Sri Lanka
		18	Alias-Resilient 3D Localization in Polytunnel Environments Using a Feature-Based Particle Filter
		19	A Chevron-Actuated Microconveyor for Precise Wafer-Scale Microfactory Transportation
		20	Fully Automatic 4-Chamber Modular Composting Machine for Urban Households
		22	Design and Development of IoT Based Portable Emission Measuring System (PEMS 2.0)
		23	Enhancing Performance of Diesel Assisted Hydrogen Opposed Piston Engines using Dual Injection
		27	Development of a Hybrid VTOL UAV with a Model Reference Adaptive Controller
		29	Design of a Playground Cleaning Machine for Post-event Waste Collection
		31	Design and Development of an Automated StickerPasting System for Ultra-Thin Polybags in the Garment Industries
		32	Optimal Gear Train Design for Compact Hollow Rotary Actuators
		34	Automated Stitching Control System for Curved Fabric Panels Using Stepper Motor Drive Pulse Mapping
		35	Simulation-Based Displacement and Volumetric Analysis of Piezoelectric Diaphragms in Circular and Square Geometries
		38	Hydrogen as a Domestic Fuel for Sri Lankan Households
15.30 - 16.00 h		Refreshments	
16.00 - 16.30 h		**Keynote speech 02**	
16.30 - 17.00 h		Closing Ceremony	