

Conference Program Sensorica 2026



Rev.: 17.06.2026

Time / Room		 HOCHSCHULE RUHR WEST UNIVERSITY OF APPLIED SCIENCES INSTITUT MESS- UND SENSORTECHNIK	Lecture Room:
Start	End		Building 6, Ground Floor, 06 EG HS5
8:00 06 EG Foyer	08:30	Registration	
8:30 06 EG HS5	9:00	Welcome Addresses by Prof. Dr. Marvin Kaminski Organization Committee Sensorica	
9:00 06 EG HS5 Field-/Wave- Based Sensing in Industry & Environment Chair: Prof. Dr. Christoph Dörlemann	10:50	Digital twins as epistemic engines for sensing electromagnetic interactions in western honey bees <i>M. Jalali</i>	
		Experimental Validation of Reference-Coil-Based Inductive Microstructure Monitoring in Steel Mills <i>M. Simoneit</i>	
		Investigation of Gaseous and Liquid Ammonia Injection with Highspeed Schlieren for Laser Induced Grating Spectroscopy <i>F. Rösner</i>	
		Evaluation of Low-Cost Characterization of Internal Wood Quality Using Electric Fields in the Sub-MHz Range <i>D. Zimnowoda</i>	
		Power Usage Characterization of a 60 GHz FMCW Radar During a Single Processing Cycle <i>L. Rusch</i>	
10:50 06 EG Foyer	11:10	Photo in front of building 6 Coffee Break, Networking with other Experts	
11:10 06 EG HS5 AI/ML & Vision-Based Measurement Technology Chair: Prof. Dr. Andreas Hennig	12:30	Evaluating the Effect of Quality Trimming on Differential Gene Expression Analysis <i>F. Bräuer</i>	
		A Score-Based Machine Learning Framework for Vehicle Maneuver Test Quality <i>N: Quirga & A. Müller</i>	
		Semantic Segmentation for Predicting Optimal Welding Conditions for Coating of Metal Tubes <i>L. Auburger</i>	
		Thermal Flame Segmentation in Industrial Furnaces A Comparison of Input Encodings for YOLOv8-seg <i>P. Herzog</i>	
12:30	13:30	Lunch Break (Barbecue)	
	13:30	Meeting of the organisation committee	

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13:30 06 EG HS5 RF/EMC, RFID & THz Cross- Correlation Spectroscopy Chair: Prof. Dr. Klaus Thelen	15:10	Design, Construction, and Characterization of Active and Passive EMC Filters for Common-Mode Interference <i>L. Richartz</i>
		Increasing the Uplink Data Rate of Passive HF RFID Systems via Multi-Level Load Modulation <i>N. Wenning</i>
		In-Situ Input Impedance Determination of Low Noise Amplifiers in Radiometric Applications <i>F. Ströder</i>
		In-Situ Gain Characterisation of Low Noise Amplifiers using Differential Thermal Noise Analysis <i>F. Ströder</i>
		Optimization of the terahertz spectrum in cross correlation spectroscopy systems through light source spectral shaping <i>P. Saadati</i>
15:10 06 EG Foyer	15:30	Coffee Break, Networking with other Experts
15:30 06 EG HS5 Medical/Bio sensing & Robotics Chair: Prof Dr. Carole Leguy	16:50	Pre-study for Lactate Quantification for Clinical Applications with Electrochemical Spectroscopy and Circuit based Data Modelling <i>J. Brüning</i>
		Novel Configuration Method for Cell Biomarker Monitoring with State of the Art MOX Sensors in Combination with AI-Algorithms <i>K. Mues</i>
		Kinetic trapping analysis for GaN HEMT-based chemical- and biosensors <i>J. Watermann</i>
		Design and implementation of a communication interface for cobot teleoperation with 6D haptic feedback in ultrasound diagnostics <i>S. Benchaou</i>
17:30	19:00	Social Event: RWW
19:30		Optional Dinner (with costs) – Ronja Mülheim an der Ruhr