



27 - 29 October

TC7 - Measurement Science
TC11 - Testing, Inspection and Certification
TC13 - Biology and Medicine
TC21 - Mathematical Tools

in association with
TC6 - Digitalization
Mathmet



2026 Joint Conference

Trusted Measurement, Trusted Analysis

FARO – ALGARVE - PORTUGAL

VENUE

Campus da Penha
Complexo Pedagógico - Edifício 9
University of Algarve
8005-139 FARO

- Provisional Programme -

Day 1

Tuesday, 27 October 2026

9:00 REGISTRATION, COFFEE, POSTER HANGING - Adjacent to Auditorium 1.4 and 1.5

10:00 CONFERENCE OPENING

Welcome Plenary		Auditorium 1.5
10:00	Conference Chairs University of Algarve Representative	
Plenary Session		
Chairs: Joao Sousa, Alistair Forbes		
10:30	Giovanni Battista Rossi, <i>"On the nature of modern science including measurement"</i>	

11:10–11:30 Coffee Break, Posters

11:30	Miles McCrory, Weronika Pryciuk, Liam Wright, <i>"Quantitative Image Analysis: An Approach to Estimating Uncertainties Associated with Image Segmentation"</i>
12:10	Katsuhiro Shirono, <i>"Can predictive uncertainty in machine learning be measurement uncertainty?"</i>

12:50–14:00 Lunch, Posters

Plenary Session		Auditorium 1.5
Chair: Katsuhiro Shirono		
14:00	Ignacio Lira, <i>"Simple GUM-Compliant Uncertainty Evaluation for Errors-in-Variables Regression"</i>	
14:40	Liam Wright, <i>"Bridging the Gap Between Chemometrics and Metrology"</i>	

15:20–15:50 Coffee Break, Posters

Session 1: Mathematics and Statistics		Session 2: Digitalisation
Auditorium 1.5		Auditorium 1.4
Chair: Ignacio Lira		Chair: Michael Chrubasik
15:50	Alistair Forbes, <i>"Distributions associated with nonlinear least-squares problems"</i>	Marina Romanchikova, <i>"Defining minimum metadata for nanometrology"</i>
16:15	Eva Fišerová, Daniel Gogola, Gejza Wimmer, Viktor Witkovský, <i>"Ellipsoid Fitting for Geometric Calibration: Uncertainty Quantification and Sphericity Testing"</i>	Teodor Tóth, <i>"Impact of Acquisition Parameters on the Metrological Accuracy of xCT Workflows"</i>
16:40	Igor Zakharov, <i>"Theta-theta position 3D fixing: measurement uncertainty evaluation"</i>	Sai Hin Matthew Chan, Russell Miller, <i>"Applying Data Quality Metrics to AIS Communications"</i>
17:05	Igor Zakharov, <i>"Rho-rho position 2D fixing: measurement uncertainty evaluation"</i>	Hugo Gasca-Aragón, <i>"THE DIGITAL METROLOGICAL EXPERT (DME)"</i>

17:30 Day 1 Technical sessions Close

18:00	Reception, University of Algarve
20:00	End of Day 1

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Day 2

Wednesday, 28 October 2026

Plenary Session		Auditorium 1.5
Chair: Severine Demeyer		
09:30	Welcome to Day 2	
09:40	Alistair Forbes, <i>"The Central Limit Theorem and sums of t-variates"</i>	
10:20	Michael Chrubasik, <i>"Towards an End-to-End Semantic Model For Calibration Services"</i>	

11:00–11:30 Coffee Break, Posters

Session 3: Digitalisation		Auditorium 1.5	Session 4: Measurement Science		Auditorium 1.4
Chair: QingPing Yang			Chair: Sanowar Khan		
11:30	Priyanka Bharti, Marina Romanchikova, Beth Tiplady, <i>"Multi-Purpose Semantic Modelling in Radiofrequency Measurements"</i>		Francesco Crenna, Giovanni Battista Rossi, <i>"Toward an operative definition of spectral resolution"</i>		
11:55	Moulham Alsuleman, Michael Chrubasik, Joao Gregorio, Harvey Whelan, <i>"Agent-Based Knowledge Graph Generation for Scientific Experiments"</i>		João Alves e Sousa, Elsa Batista, Rui Maldonado, <i>"Uncertainty calculation for microchannel hydraulic resistance determination"</i>		
12:20	Carlos Pires, Gonçalo Carvalhal, João Abrantes, João A. Sousa, Isabel Lopes, Amauri Camargo, <i>"Development and implementation of digital calibration certificates at IPQ: from NMI to end-user"</i>		Soheil Ahmadi, Kenneth Grattan, Sanowar Khan, <i>"Geometry-Resolution Effects in 3-D Finite-Element Simulations of Twisted-Conductor Loss"</i>		

12:45–14:00 Lunch

Plenary Session		Auditorium 1.5
Chair: João Sousa		
14:00	Fernando Oliveira, <i>"Windowed Cross-Correlation for Assessing Relative Timing Drift in DAQ Systems"</i>	
14:40	Elisabeth Costa Monteiro, <i>"Metrological Traceability Infrastructure for Diabetes-Related Laboratory Measurements: A Pilot Study of Global Availability and Access"</i>	

15:20–15:40 Tea & Coffee, Posters

15:40–16:20 Poster walk *

Session 5: Measurement		Auditorium 1.5	Session 6: Life Sciences		Auditorium 1.4
Chair: Francesco Crenna			Chair: Elisabeth Costa Monteiro		
16:20	Marija Cundeva-Blajer, <i>"Expert Conformity Assessment Algorithm in Calibration by MonteCalc Uncertainty Toolkit"</i>		Padmini Krishnadas, Urs Hackstein, Alen Bosnjakovic, Philip Aston, <i>"Light vs. Dark Skin Tone Classification Using Photoplethysmography Signals"</i>		
16:45	Francesca Pennechi, <i>"Extension of the JCGM 106 approach: assessing the number of truly conforming items in a lot"</i>		Thábata Rayane Gusmão, <i>"Contextual Exploration of Hair Mineral Data: Integrating Group Comparisons and Reference Intervals"</i>		
17:10	Zeliha Hanim Karapinar, <i>"Self-Validating Bayesian Recalibration Interval Optimization of Mass Standards"</i>		Bartłomiej Cieszyński, <i>"Multi-Dimensional Data Quality Framework for Machine Learning in Arrhythmia Classification"</i>		

18:00 Day 2 Technical sessions Close

19:00	Drinks reception - Hotel Eva Senses
19:45	Conference dinner - Hotel Eva Senses
22:00	End of Day 2

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Day 3

Thursday, 29 October 2026

Plenary Session		Auditorium 1.5
Chair: Hugo Gasca-Aragon		
09:30	Welcome to Day 3	
09:40	Tameem Adel, <i>"Metrological Validation in Medical AI: Using Counterfactuals to Isolate Sensor-Induced Shortcut Learning"</i>	
10:20	Hannah Strassburg, <i>"Data Quality and Uncertainty in Climate Modelling: A Case Study Using the Input4MIPS Emissions Dataset"</i>	

11:00–11:30 Coffee Break, Posters

Session 7: Digitalisation		Auditorium 1.5	Session 8: Measurement		Auditorium 1.4
Chair: Liam Wright			Chair: Marija Cundeva-Blajer		
11:30	Joao Gregorio, <i>"Image Data Quality: An Empirical Approach to Metadata Reliability in Multi-Site Imaging"</i>		11:30	QingPing Yang, <i>"Principled Analysis of Error and Uncertainty for General Staged Measurement Chains"</i>	
11:55	Johannes Kombe, <i>"Virtual Knowledge Graph for Air Quality Measurement Datasets"</i>		11:55	Ahmad Barari, Wahab Janjuua, <i>"Loosely-Coupled Camera-Anchored Residual Learning for Three-Dimensional Handheld Inertial Navigation"</i>	
12:20	Callum Whyte, <i>"Validation of LiDAR sensors in virtual testing environments"</i>		12:20		

12:45–14:00 Lunch, poster take down

Plenary Session		Auditorium 1.5
Chair: Francesca Pennecchi		
14:00	Vivek Desai; Andrew Thompson, <i>"Extending Confidence Calibration to Generalised Measures of Variation"</i>	
14:40	Severine Demeyer, <i>"Interpreting interlaboratory comparison results: current challenges and future perspectives"</i>	
15:20	Uncertainty in Measurement, Kharkiv, December 2026 IMEKO WC 2027, Rimini, Italy	
15:40	Close	
	Coffee & Tea	
16:00	End of Conference	

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Poster Walk		Poster Presentations
Presenters attending Wednesday 28 October at 15:40		
Edita Raudienė, <i>"Trusted Measurement Data through Optimized Uncertainty Evaluation for Science-Driven Decision-Making"</i>		
Kweonho Kang, Chang Hwa Lee, Jae Soo Ryu, <i>"Standard Reference Data for Thermal Diffusivity of HANA-6"</i>		
Asta Meškuotienė, <i>"Technical challenges and interpretations: the interaction of legal metrology and accreditation requirements in laboratory practice"</i>		
Saowaluck Ukrisdawithid, <i>"A Metrological Framework for the Comprehensive Annual Calibration of pH Meters"</i>		
Livio D'Alvia, venla korkko, <i>"Experimental Microwave Array Sensing for Brain Tumor Detection: Sensitivity and Repeatability Evaluation in a Head Phantom Model"</i>		
Salah BOUHOUCHE, <i>"Extended robust algorithm (A) ISO 13528 to dynamic measurement for interlaboratory comparison"</i>		
Luís Alves, Dora Carinhas, Paulo Infante, José Rocha, <i>"A Statistical Workflow for the Metrological Evaluation of a Thermoregulated Bath Used in Hydro-Oceanographic Sensor Calibration"</i>		