

Metromest

Digital Metrology Shaping the Future of Industrial Manufacturing

+++ 19 + 20 April 2023
Bilbao / SPAIN

www.metromeet.org

April 19 Abril

08:30 - 09:00	Registration + Coffee
09:00 - 11:30	KEYNOTE
	Rethinking Manufacturing Resilience with Digital Transformation in Industrial Metrology Toni Ventura-Traveset Datapixel, Spain
11:30 - 12:00	Coffee Break
12:00 - 14:00	TRACK 1 · Metrology Standards for Industry 5.0: MBD, QIF and IDS
12:00 - 12:40	MBD in Action: Schneider Electric Use of MBD for Design and Quality Narendra Akhadkar & Daniel Campbell Schneider Electric, France & Capvidia, USA
12:40 - 13:20	The Quality Information Framework (QIF): current status and future directions Edward Morse University of North Carolina at Charlotte, USA
13:20 - 14:00	Using IDS framework to exchange metrological data Oscar Lázaro Innovalia Association, Spain
14:00 - 15:15	Lunch · Jauregia Restaurant
15:15 - 15:30	OPENING
15:30 - 16:50	TRACK 2 · Metrology and Robotics: From Kinematic Compensation to On-Demand Inspection
15:30 - 16:10	Development of software application for the off-line robot program compensation in 6 DoF (RoboKom) Brahim Ahmed Tekniker, Spain
16:10 - 16:50	Autonomous mobile robot for on-demand large-object inspection Matthias Karl Carl Zeiss AG, Germany
16:50 - 18:10	TRACK 3 · Digital Metrology Traceability: Digital Transformation of Calibration and Traceability Services
16:50 - 17:30	Redesign of metrological services towards the extension of traceability chain for industrial innovations and applications Federico Grasso Toro GRASSO TORO Digital Solutions, Germany
17:30 - 18:10	GEMIMEG-II: Digitalization of calibration processes in metrology Thomas Engel Siemens AG, Germany
20:30 - 23:00	Conference Banquet

*The organization reserves the right to reschedule, add or cancel presentations. / La organización se reserva el derecho a modificar horarios, añadir o cancelar presentaciones.

April 20 Abril

08:30 - 09:00	Registration
09:00 - 09:40	SPECIAL SESSION
	When Metrologists start to talk with Simulation Gerd Schwaderer Volume Graphics GmbH, part of Hexagon, Germany
09:40 - 11:40	TRACK 4 · Metrology and Machine Tool: Advances in Machine Tool Verification and Machining Optimization
09:40 - 10:20	Virtual Metrology for Machining Applications Dimitris Kyritsis Professor of ICT for Sustainable Manufacturing, Switzerland
10:20 - 11:00	Verification of machining centers with metrological sw and artifacts Ainhoa Etxabarri Innovalia Metrology, Spain
11:00 - 11:40	Digital Twin applications for virtual metrology in milling manufacturing processes Roberto Perez GF Machining Solutions, Switzerland
11:40 - 12:10	Coffee Break
12:10 - 13:30	TRACK 5 · Metrology and Additive Manufacturing: CT Scanning and Quality Assessment
12:10 - 12:50	Quality assessment of the internal structure of additively manufactured aluminum parts by means of industrial computed tomography scanning Ibon Holgado (CFAA)-UPV/EHU, Spain
12:50 - 13:30	Metrological evaluation of 3D printed Poly(Lactic Acid) fixtures by Fused Deposition Modeling (FDM) Pablo Antunes da Rosa Boticario Group, Brazil
13:30 - 15:00	Lunch · Jauregia Restaurant
15:00 - 17:40	TRACK 6 · Techniques and Applications for Metrology Innovation
15:00 - 15:40	The importance of metrology support in big structure assembly Andrea Pellegrino GEATOP srl, Italy
15:40 - 16:20	Predicting Point-Wise Measurement Accuracy of Scanning Devices using XAI-based Approaches: Towards Metrology 4.0 Serafeim Moustakidis & Eleni Lavasa CTO / AIDEAS OU, Estonia & Athena RC, Greece
16:20 - 17:00	Object pose estimation for stereo imaging using raycasting Joe Eastwood University of Nottingham, UK
17:00 - 17:40	Uncertainty in position measured with MEMS-type. Inertial Measurement Units James Schipmann Eger Federal University of Santa Catarina, Brazil
17:40 - 18:00	ROUND TABLE + CLOSING

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1 DAY 2 DAYS
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➤ Access 3 people
1 DAY 2 DAYS
675€ 1080€

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1 DAY 2 DAYS
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*VAT excluded

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