



3RD 3DMC
HAMBURG • GERMANY

SCHEDULE



WWW.3DMC.EVENTS

CONFERENCE: WEDNESDAY, OCTOBER 17

09:00 *OPENING*

09:30 KEYNOTE: Applications for Blockchain Technology in Sensor Systems, Augmented and Mixed Reality

A. Britz (Microsoft Deutschland GmbH), M. Breuer (ubirch GmbH)

10:20 Additive Manufacturing Machine Characterisation Using Artefact based Dimensional Metrology

R. Broxton (Renishaw Plc)

10:45 *COFFEE BREAK*

11:15 3D Scanning in Aviation Safety

E. Li-Chang Chuang (Aviation Safety Council)

Evaluating State of the Art Automated Photogrammetry for Volume Wing Manufacture at Airbus

S. Robson (UCL), K. Forster (Airbus Operations Ltd)

Two Uncertainty Models for Spherical Instrument Measurements

J. Dorsey-Palmateer (JDP Metrology Consulting LLC)

12:30 *EXHIBITION OPENING*

13:15 *LUNCH*

14:15 Machine Vision and Data-Modelling for Closed Loops in the Axle Drive Production

S. Gerdhenrichs (BMW Group)

Geometric Inspection of Non-Rigid Aeronautical Parts Using Optical Measurement Systems and Virtual Fixturing

G. Donatelli (Fundação CERTI)

Immersive Metrology System – Developing an Aerospace Demonstrator

D. Canepa (University of Bath)

15:30 *COFFEE BREAK AND EXHIBITION TIME*

16:15 Robot Calibration using XM-60 6DOF Laser

S. Fletcher (University of Huddersfield)

Integrated Measurement Systems for Machine Tools – Opportunities and Challenges

M. Wennemer (Heinrich Georg GmbH)

A Hydraulic Levelling System for Machine Tool Alignment

R. Ricatto (Fidia S.p.A.)

- 09:00** **Aligning the new Brazilian Synchrotron: A Case Study of LVM**
R. Leao (LNLS Brazilian Synchrotron Light Laboratory)
- Development of a Multi-Directional Optical Probe
K. Maruno (Hitachi, Ltd.)
- White Light Interferometry for Automated Inspection of Jet Engine Components
M. Ernst (3D.aero GmbH; Joint Venture by Lufthansa Technik & Pepperl+Fuchs)
- 10:15** *COFFEE BREAK AND EXHIBITION TIME*
- 11:15** **A Novel 3D Coordinate Measurement System based on FSI and Galvanometer**
Y. Shang (Tianjin University)
- Image-based Measurement of Concrete Surface Roughness
B. Özcan (RWTH Aachen)
- Feature-based Modelling for Pose Estimation of Cylindrical Elements in Large Scale and Harsh Environments
G. Kortaberria (IK4-TEKNIKER)
- 12:30** *LUNCH AND EXHIBITION TIME*
- 13:30** **Automated Assessment of Quality of Part Surface Coverage in Smart, Optical Form Measurement Systems**
S. Catalucci (University of Nottingham)
- Stereo Camera Head for 3D Laser Tracking
R. Loser (Hexagon Manufacturing Intelligence), M. Kleinkes (VMT GmbH)
- 14:15** *COFFEE BREAK AND EXHIBITION TIME*
- 14:45** **Wind Turbine Components Inspection Process using 3D LVM Solutions**
P. Vieira (Grupo Tecnimex)
- Toward Intelligent Automated 3D Measurement: Task Specific Viewpoint Optimisation
J. Hodgson (Loughborough University)
- Optimized Robot Cell Calibration in the Automotive Industry
J. Wambach (sigma3D GmbH)
- 16:00** *FAREWELL*

WORKSHOPS: TUESDAY, OCTOBER 16

- 16:00** Understanding Industrial Measurement Capability
J. Muelaner (University of Bath), F. Keller (PTB)
- 17:00** *COFFEE BREAK*
- 17:30** Leveraging the Benefits of Machine Tool Calibration
E. Gomez-Acedo Bilbao (IK4-TEKNIKER), P. Dahlem (RWTH Aachen)

SOCIAL EVENTS

- Oct. 16** Ice Breaker
18:30 *Fruitful Discussions in a Comfortable Atmosphere*
- Oct. 17** Conference Dinner
20:00 *Fine Dining at the Elbe River*

METROLOGY STADIUM

New River Kinematics and **VMT** offer challenging measurement tasks for you to complete and for you to compete – against stiff competition, i.e. other delegates.

WIFI

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4TH 3DMC 2019

3DMC19's location is already fixed and will be revealed during this year's conference. Please leave your business card at the conference's front desk to stay informed about the upcoming fourth edition of *the* European 3D Metrology Conference.