



IMEKO
International Measurement Confederation

Technical
Committee
TC10
Testing, Diagnostics & Inspection

euro lab aisbl

Call for papers for the Conference on
**Testing, Diagnostics & Inspection as a
comprehensive value chain for Quality & Safety**



Berlin, Germany
September 3-4, 2019
www.imekotc10-2019.sztaki.hu

IMPORTANT DEADLINES

May 2
2019 Deadline for submission
of extended abstract

May 30
2019 Notification of authors of
abstract acceptance

June 28
2019 Deadline for
camera-ready papers

INVITATION

The International Measurement Confederation IMEKO, Technical Committee 10 on Testing, Diagnostics & Inspection and EuroLab aisbl kindly invites you to attend the 16th IMEKO TC10 Conference: "Testing, Diagnostics & Inspection as a comprehensive value chain for Quality & Safety" to be held in Berlin, Germany, on September 3-4, 2019. It is the first conference jointly organized by IMEKO & EUROLAB. The Conference is a forum for advancing knowledge and exchange ideas on methods, principles, instruments, technologies and IT tools, standards, industrial applications, conformity assessment, quality management and measurement challenges on Testing, Diagnostics & Inspection as well as their diffusion across the scientific community. Participants have an excellent opportunity to meet top specialists from industry, the TIC Sector (Testing, Inspection & Certification) and academia all over the world and to enhance their international co-operation. The programme will feature scientists and experts as leading keynote speakers for selected presentations on the main topics of the Conference.

CALL FOR PAPERS

Authors are kindly invited to submit extended abstracts in the appointed scientific topics, three to four pages long in A4 format. The abstract should report original research results of theoretical or applied nature and should explain the significance of the contribution to the research field. The abstracts will be reviewed by the International Programme Committee. Electronic abstracts must be in Adobe Acrobat (pdf) and should be sent according to the procedure described in <http://www.imekotc10-2019.sztaki.hu>. Proceedings identifier: ISBN 978-92-990084-1-6.

SPECIAL ISSUE

Selected papers of the conference will be invited to the Measurement and ACTA IMEKO Special Issues. All submitted papers will undergo a regular peer review process. The manuscript MUST be significantly extended beyond the IMEKO TC10 conference paper.

SCIENTIFIC TOPICS

- T1 - Basic principles and development trends in testing, diagnostics and inspection
- T2 - Condition monitoring and maintenance of industrial processes, plants and complex systems: measurements and methods
- T3 - Testing, diagnostics, inspection and prognostics for maintainability, safety, risk assessment and management
- T4 - Regulatory framework (for safety of industrial products, food protection, environmental protection, health protection, customer protection, information security etc.)
- T5 - Data Analytics, artificial intelligence techniques and machine learning for testing, diagnostics and inspection
- T6 - Testing, diagnostics and inspection applications in industry, transportation, mechatronics, avionics, automotive, food and biomedical fields
- T7 - Decision support and IT solutions for testing, diagnostics and inspection
- T8 - Testing, diagnostics and inspection for the improvement of quality of life and environment
- T9 - Product conformity assessment and process analysis
- T10 - Certification (products, management systems, persons) and accreditation
- T11 - Traceability in testing, diagnostics and inspection
- T12 - Measurements and methods for TQM (Total Quality Management);
- T13 - Technical testing, diagnostics and inspection for Cyber security
- T14 - Non destructive testing, diagnostics and inspection
- T15 - Diagnostics and Monitoring with Cyber Physical Systems
- T16 - Fog, Edge and Cloud infrastructure for distributed diagnostics, inspection and monitoring
- T17 - Industry 4.0 foundations, applications, trends and novelties



GENERAL CHAIRS

Dr. Zsolt János Viharos

Chairperson of the IMEKO TC10 on Testing, Diagnostics & Inspection
President of the Hungarian National IMEKO Committee
Centre of Excellence in Production Informatics and Control, Institute for Computer Science and Control of the Hungarian Academy of Sciences (MTA SZTAKI), Budapest, Hungary
Research Laboratory on Engineering and Management Intelligence
viharos.zsolt@sztaki.mta.hu

Eckhard Hohwieler

Fraunhofer IPK, Institute for Production Systems and Design Technology, Berlin, Germany
Production Systems Division
Head of Production Machines and System Management department
eckhard.hohwieler@ipk.fraunhofer.de

Prof. Álvaro Silva Ribeiro

President EUROLAB aisbl, Brussels, Belgium
Head of Hydraulics Metrology Laboratory, National Laboratory for Civil Engineering (LNEC), Lisbon, Portugal
asribeiro@lnec.pt

LOCAL ORGANISERS

Gusztáv Hencsey

Centre of Excellence in Production Informatics and Control, Institute for Computer Science and Control of the Hungarian Academy of Sciences (MTA SZTAKI), Budapest, Hungary
hencsey.gusztav@sztaki.mta.hu

Claudia Engel

Fraunhofer IPK, Institute for Production Systems and Design Technology, Berlin, Germany
Head of Media and Public Relations / Event management
claudia.engel@ipk.fraunhofer.de



VENUE

Fraunhofer IPK, Institute for Production Systems and Design Technology, Berlin
Pascalstraße 8-9, 10587 Berlin, Germany



Photo copyright Fraunhofer IPK and ©visitBerlin

TECHNICAL PROGRAMME CHAIRS

General Chair

Prof. Lorenzo Ciani

Scientific secretary of the IMEKO TC10 on Testing, Diagnostics & Inspection
University of Florence, Florence, Italy
School of Engineering
DINFO - Department of Information Engineering
lorenzo.ciani@unifi.it

Technical Chairs

Claudio Geisert

Fraunhofer IPK, Institute for Production Systems and Design Technology, Berlin, Germany
Production Systems Division
Production Machines and System Management department
claudio.geisert@ipk.fraunhofer.de

Mladen Jakovcic, MSc

President of HMD, Croatian Metrology Society, Zagreb, Croatia
mladen.jakovcic@hmd.hr

Dr. Rolf Kumme

Physikalisch-Technische Bundesanstalt (PTB), Braunschweig and Berlin, Germany
Head of Department 1.2 Solid Mechanics
rolf.kumme@ptb.de

Prof. Kurt Ziegler

President of EUROLAB-Deutschland, Berlin, Germany
kurt.ziegler@gmx.de

