

Call for papers for the Conference on
“Measurement for Diagnostics, Optimization and Control to Support Competitiveness and Innovation”

<https://www.imekotc10-2026.sztaki.hu/>



Important deadlines

April 30 2026	Abstract submission	May 29 2026	Notification of authors of abstract acceptance	June 30 2026	Final paper submission
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Invitation & call for papers

The International Measurement Confederation (IMEKO), through its Technical Committee 10 (TC10) on Measurement for Diagnostics, Optimization and Control, invites researchers, scientists, and practitioners from academia and industry worldwide to submit original papers to the 20th IMEKO TC10 International Conference, to be held in Lisbon, Portugal, on 28–29 September 2026. The conference will serve as an international forum dedicated to measurement for diagnostics, optimization and control, in line with the long-standing IMEKO TC10 mission to promote research, development, and best practices that enhance system performance, reliability, and decision-making.

In today's highly competitive and innovation-driven environment, accurate and intelligent measurement is essential for diagnostics, optimization, and control of complex systems, fostering sustainable innovation, strengthening competitiveness, and addressing emerging technological and societal challenges through advances in measurement methods, principles, instruments, technologies, IT tools, keynote lectures, and international scientific exchange.

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 pdf and should be sent according to <https://www.imekotc10-2026.sztaki.hu/>.



Venue

LNEC | Lisboa | Portugal



LNEC Campus has the appropriate facilities for the organisation of events with a scientific and technical character. It also enjoys a privileged location due its vicinity with Lisbon's airport.

Why Lisboa:

A historical city full of stories to tell, where the sun shines 290 days a year and the temperature rarely drops below 15°C. Lisboa, where you feel safe wandering around day or night. A city full of authenticity where old customs and ancient history intermix with cultural entertainment and hi-tech innovation. Lisboa is ageless, but it loves company, as you'll find out if you meet someone and ask them to explain, with lots of gestures and repetition, where the best place is to listen to Fado. After all, Lisboa is famous for its hospitality and the family-like way it welcomes visitors.

Special issue

Selected papers of the conference will be invited to Special Issues of Measurement: Sensors and ACTA IMEKO. 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 Measurement for Diagnostics, Optimization & Control

T2 - Sensors, signal acquisition and processing for Diagnostics, Optimization & Control

T3 - Condition monitoring and maintenance of industrial processes, plants and complex systems

T4 - Failure & fault detection and prognosis

T5 - Artificial intelligence, machine learning and data science for Diagnostics, Optimization & Control

T6 - Industry 4.0 foundations, applications, trends and novelties

T7 - Methods and algorithms for real-time Diagnostics, Optimization & Control

T8 - In the loop testing, design, and simulation approaches of dynamic systems

T9 - Embedded systems in Diagnostics, Optimization & Control

T10 - Uncertainty in Diagnostics, Optimization & Control

T11 - Digital transformation

T12 - Internet of Things (IoT) oriented Measurement for Diagnostics, Optimization & Control

T13 - Human aspects in Diagnostics, Optimisation & Control

T14 - Measurement for Diagnostics, Optimization & Control for the improvement of quality of life and environment

T15 - Product conformity assessment, quality management and process analysis

T16 - Measurement for Diagnostics, Optimization & Control for safety and risk assessment

T17 - Non-destructive Testing for Diagnostics, Optimization & Control

T18 - Standards in Measurement for Diagnostics, Optimization & Control

T19 - Mechanical systems' principles in Measurement for Diagnostics, Optimization & Control

T20 - Instrument fault detection, optimization & control in autonomous driving vehicles

T21 - Diagnostics, Optimization & Control for sustainability and Innovation

T22 - Diagnostics, Optimization & Control to support competitiveness

T23 - Diagnostics, Optimization & Control applications in various sectors like industry, transportation, mechatronics, electronics, acoustics, urban systems, living environment, civil engineering, technology of health systems, avionics, automotive, energy, machining, green environment, water treatment and biomedical fields, etc



Chairperson of the conference & committees

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Chairperson of the IMEKO TC10 on Measurement for Testing, Diagnostics & Inspection
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