



**TC7** - Measurement Science  
**TC11** - Testing, Inspection and Certification  
**TC13** - Biology and Medicine  
**TC21** - Mathematical Tools  
 in association with  
**TC6** - Digitalization  
**Mathmet** - Mathmet

27 - 29 October

2026 Joint Conference

*Trusted Measurement, Trusted Analysis*



**FARO – ALGARVE - PORTUGAL**

International Conference on

<https://conferences.imeko.org/event/18/overview>

## Trusted Measurement, Trusted Analysis

*Supporting Science-driven Decision-making*

Incorporating

### Advanced Mathematical and Computational Tools in Metrology and Testing 2026

An event of

[IMEKO TC21](#)

**Mathematical Tools for Measurements**

[IMEKO TC7](#)

**Measurement Science**

[IMEKO TC11](#)

**Measurement in Testing, Inspection and Certification**

[IMEKO TC13](#)

**Measurement in Biology and Medicine**

in conjunction with

[IMEKO TC6](#)

**Digitalisation**

[Mathmet](#)

**European Metrology Network for Mathematics and Statistics**

Organised by



Associação de Laboratórios Acreditados de Portugal

*Association of Accredited Laboratories of Portugal*

Co-sponsored by



*International Measurement Confederation*

Venue



Universidade do Algarve  
 Campus da Penha,  
 8005-139 FARO  
 PORTUGAL

University *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 Faro's airport.

Conference aim

The metrology community is tasked with providing a coherent framework in which measurement results can be made interoperable through metrological traceability to an agreed set of standard units. Most technical data used in decision-making is the result of workflows that depend on measurement data, models, algorithms and software, and for such outputs to be trustworthy and used effectively, it is necessary that all elements in the workflow are transparent, principled, explainable and interpretable and can be quality assured. The overall aim of the conference is to provide a multi-disciplinary forum to address how the metrology community can support trustworthy workflows across all scientific and technical disciplines, through

- Extending metrology traceability and uncertainty quantification concepts to encompass complete workflows, from data to decisions
- Using a multidisciplinary approach to address measurement and analysis challenges relating to new measurement modalities and applications
- Understanding better the measurement theory, modelling, statistical and computational requirements in metrology and develop new mathematical and computational tools for measurement and testing.

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## Conference scope

The conference invites contributions relating to the general themes of

- **Measurement Theory and Foundations of Measurement Science:** concepts, axioms, epistemological foundations, social and ethical aspects, rules, principles, methods, and procedures underlying the obtaining, processing, expression, communication, and interpretation of correct and reliable results of measurements of physical and non-physical quantities, **including psychosocial measurements**, as well as the assessment of nominal properties.
- **Mathematical and statistical modelling:** data analysis, machine learning and uncertainty quantification, AI in measurement systems and data processing, knowledge representation and reasoning, trustworthiness of data, models, algorithms, and software
- **Testing, inspection and certification:** developing measurement science and best practice applied in industry, environmental protection, healthcare, safety and quality of life.
- **Measurements in Life Sciences:** measurement of whole-body, organ, and cellular function; measurements in the clinical laboratory; medical imaging; medical information systems; diagnosis and medical decision-making; knowledge-based systems; intelligent instrumentation in medicine and healthcare.

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## Conference format

The conference will be an **in-person** conference

The conference programme will consist of:

- Plenary sessions featuring invited and selected contributions
- Sessions organised in themes
- Poster sessions

It is anticipated that the themed sessions will be held in two or three parallel streams.

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## Publication of papers

It is anticipated that accepted full papers, following peer review, will be published in the IMEKO journals: Measurement, Acta IMEKO, Measurement: Sensors and other IMEKO journals

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## Important Deadlines (provisional)

Jun	2026	Abstracts for contributed talks
Jul	2026	Decision on review of abstracts for contributed talks
Sep	2026	Abstracts for including in conference programme booklet
Oct	2026	Conference
Dec	2026	Full papers submission

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## Conference chairs

João Alves e Sousa	IMEKO TC7, IPQ, Portugal
Álvaro Silva Ribeiro	IMEKO TC11, LNEC, Portugal
Elisabeth Costa Monteiro	IMEKO TC13, PUC-Rio, Brazil
Alen Bošnjaković,	IMEKO TC21, IMBiH, Bosnia and Herzegovina
Alistair Forbes	IMEKO TC21, NPL, UK
Francesca Pennechi	Mathmet, INRIM, Italy

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## International Programme Committee

Under construction

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## Local organising committee

Under construction

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## Contact

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