



## AMCTM 2023 – PRELIMINARY ANNOUNCEMENT

# International Conference Advanced Mathematical and Computational Tools in Metrology and Testing 2023



26-28 September, 2023

Sarajevo, Bosnia and Herzegovina

An event of

IMEKO TC21: *Mathematical Tools for Measurements* in conjunction with:

IMEKO TC6: *Digitalisation*, [IMEKO TC6](#)

Mathmet: *the European Metrology Network for Mathematics and Statistics*

[EURAMET: Mathmet](#)

**organised by IMBiH and co-sponsored by IMEKO**

[www.amctm.info](http://www.amctm.info)

### Conference aims

The overall aims of the conference series are to provide a multi-disciplinary forum to:

- Understand better the modelling, statistical and computational requirements in metrology
- Develop new mathematical and computation tools for measurement and testing
- Promote national, regional and international collaboration
- Support young researchers in metrology and related fields
- Transfer of best modelling and computational practice to testing and calibration, industry and other client communities

**The conference will also celebrate the 30<sup>th</sup> Anniversary of the first Advanced Mathematical Tools for Metrology conference held in Turin, 1993.**

### Conference scope

The conference invites contributions relating to the general themes of

- mathematical and statistical modelling
- data analysis, machine learning and uncertainty quantification
- AI, knowledge representation and reasoning
- trustworthiness of data, models, algorithms, and software
- digital transformation and data science

and on how mathematical and computational tools can enable metrology address challenges in:

- advanced manufacturing and industry, e.g., digital twins, IoT



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- environment and climate e.g., sensor networks, smart cities, earth observation
  - energy and sustainability, e.g., smart grids, infrastructure monitoring
  - life sciences and health, e.g., imaging, machine learning

**Note:** submissions relating to instrument design or experimental results alone are **not** within scope.

### Conference format

The conference will be an **in-person** conference (but with some facility for remote participation in exceptional circumstances.)

The conference 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.

### Organisation

The conference is organised by IMBiH. IMBiH, the National Metrology Institute of Bosnia and Herzegovina, is responsible for developing scientific, industrial and legal metrology system. The Institute is a signatory to the CIPM-MRA on behalf of B&H. IMBiH's quality policy is to establish, maintain and manage the national metrology system in order to satisfy national and international requirements and needs. IMBiH became a IMEKO member organisation in 2022 [www.met.gov.ba](http://www.met.gov.ba).

### Publication of papers

It is anticipated that accepted full papers, following peer review, will be published in the IMEKO journals: Measurement, Measurement: Sensors and Acta IMEKO. The multi-author AMCTM Book Series is under consideration also for 2023 conference papers.

### Draft timetable

Apr	2023	Abstracts for contributed talks
May	2023	Decision on review of abstracts for contributed talks
Aug	2023	Abstracts for including in conference programme booklet
Sep	2023	Conference
Dec	2023	Full papers submission
Mar	2024	Publication of full papers

### Conference chairs

Alen Bošnjaković	Mathmet, IMBiH, Bosnia and Herzegovina
Zijad Džemić	Mathmet, IMBiH, Bosnia and Herzegovina
Sacha Eichstädt	IMEKO TC6, PTB, Germany
Alistair Forbes	IMEKO TC21, NPL, UK
Franco Pavese	IMEKO TC21, INRIM, IT
João Alves e Sousa	Mathmet, IPQ, Portugal

### International Programme Committee

Under construction

### Local organising committee (IMBiH, Bosnia and Herzegovina)

Zijad Džemić  
Alen Bošnjaković  
Haris Memić  
Šejla Ališić



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