



AMCTM 2023 – ONLINE: THIRD ANNOUNCEMENT AND EXTENDED CALL FOR PAPERS

International Conference
Advanced Mathematical and Computational Tools in
Metrology and Testing 2023 – Now ONLINE!



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

In order to accommodate a wider participation, the AMCTM 2023 has now changed to **an online conference**, with **extended deadlines**.

Abstracts are invited for the thirteenth edition in the AMCTM conference series.

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 30th 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



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- 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
- 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.

Abstract submission

Abstracts of up to two A4 pages in PDF format are invited by ~~26th May 2023~~ **18th August 2023**. Although there is no required format for the abstract, authors may wish to use the World Scientific templates for abstracts (and later, full papers) in MS Word and LaTeX for the 9.00" x 6.00" book format available from www.worldscientific.com/style/proceedings_style.shtml. **All presentations will be online.** See also below for information about direct submission to the AMCTM XIII book.

Abstracts should be sent to amctm2023@met.gov.ba with "ABSTRACT" in the subject line. Decisions by the International Programme Committee on abstracts will be communicated by ~~23rd June 2023~~, **01 September 2023**, along with guidelines for full papers. Authors of accepted abstracts are asked to provide full papers by **20th October 2023**.

Publication of papers

It is anticipated that accepted full papers, following peer review, will be published by early 2024 in the multi-author book "Advanced Mathematical and Computational Tools in Metrology and Testing XIII", which will be Scopus Indexed. The previous twelve volumes associated with the conference series have been published by World Scientific (<http://www.wspc.com>). Volumes IX–XII are indexed in the Web of Science.

Direct contribution to the AMCTM XIII multi-author book

The conference co-chairs will consider direct contributions to the AMCTM XIII multi-author book, for authors unable to participate in the AMCTM 2023 online conference. Authors wishing to use this route should submit an abstract following the guidance above but include in the email the submission the request for a direct submission. Authors using the direct submission will be required to contribute approximately €200 to cover publication costs.

Conference format: now online

The conference will be an **on-line** conference.

The conference will consist of:

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

It is anticipated that the themed sessions will be held in two 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,



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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.

Timetable

18 August	2023	Abstracts for contributed talks
01 September	2023	Decision on review of abstracts for contributed talks
15 September	2023	Deadline for registration
20 October	2023	Deadline for full paper submission
March	2024	Publication of AMCTM XIII multi-author book

Registration

The registration fee for the 3-day conference is:

- € 100 student registration
- € 180 IMEKO TC 21 and TC6 members
- € 200 standard registration

Website

<https://amctm.info/>

The conference website will be regularly updated with the latest information about the conference.

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, lead editor of AMCTM XIII multi-author book
João Alves e Sousa	Mathmet, IPQ, Portugal

Local organising committee (IMBiH, Bosnia and Herzegovina)

Alen Bošnjaković, Milica Ristović Krstić, Zijad Džemić, Šejla Ališić, Haris Memić, and Meriha Hadžimusić

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