

**First Announcement and Call for Papers of the 13th
ERME TOPIC CONFERENCE (ETC13)**

on

Mathematics Education in the Digital Age (MEDA3)

07-09 September 2022 in Nitra, Slovakia

Website [MEDA3](#)

The first ERME Topic Conference for Mathematics Education in the Digital Age (MEDA1) was held in September 2018 in Copenhagen, the second, MEDA2, in September in Linz (online), Austria. They were inspired by the contributions of the Thematic Working Groups 15 and 16 in CERME10 and CERME11, which highlighted the diversity of current research and its overlaps with other TWG themes. It was an interdisciplinary, multifaceted collaboration that brought together participants who would normally attend a range of CERME Thematic Working Groups to provide the opportunity for further in-depth discussion and debate.

The successful experience resulted in an intensive communication and collaboration during the MEDA1 conference, and our collegial work continued towards the publication of a post-conference book in the ERME Series published at Routledge ([Clark-Wilson et al. 2021](#)).

The proceedings of the previous two conferences can be found here: [MEDA1](#) and [MEDA2](#).

Call for papers and poster proposals:

The International Programme Committee particularly welcomes theoretical, methodological, empirical, or developmental papers (*4 pages*) and poster proposals (*2 pages*) in relation to the following conference themes:

Theme 1: Mathematics teacher' practices, teacher education and professional development in the digital age

- Shared virtual/hybrid spaces and resources for teacher education and professional development
- Teachers' experiences and practices during the COVID-19 pandemic and expectations regarding perspectives for teaching after the crisis

Theme 2: Curriculum innovation, design of digital and hybrid environments and practical implementation of digital resources

- Applications of Learning Management Systems, Learning Analytics and Artificial Intelligence in the design of resources, students' activities, assessment and research in mathematics education

- Design and implementation of resources with novel technologies as 3D print technologies, robots, AR, VR, MR and XR, in addition to the well-established DGS and CAS
- Computational thinking in mathematics education at all educational levels
- Different modalities of synchronous and asynchronous learning supported with various digital tools (e.g., digital concept maps, shared boards and spaces, etc.)

Theme 3: Assessment in mathematics education in the digital age

- Formative and summative assessment in remote and hybrid conditions at all levels of education

Cross-theme relationships

Whilst we propose these three themes to support more focused work during the conference, we are acutely aware of the overlaps and relationships between them. Consequently, we will work to integrate these themes in the following ways:

- We will welcome research papers that bridge two or three of the conference themes. The IPC will actively encourage papers of this type from the community.
- We will support the ‘cross-theme’ work by scheduling sessions during the conference for the separate groups to come together.

The conference particularly welcomes contributions linking some of these three themes at any level of mathematics education: pre-school, primary, lower- and upper-secondary or tertiary.

Papers and poster proposals must use the [MEDA template](#).

Please, upload your paper or poster proposal on the [Submission webpage](#), providing the required information, in particular the intended MEDA Theme number.

Each paper will be peer-reviewed by two persons from among those who submit papers to the conference. The IPC will review posters. Please expect to review up to two papers yourself. The final decision about acceptance rests with the IPC.

Conference website for [MEDA3](#)

Deadlines:

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|---|---------------------------|
| Submissions of paper and poster proposals | May 15, 2022 |
| Submission of reviews | June 15, 2022 |
| Final acceptance decisions | July 01, 2022 |
| Papers available online on the conference website | September 01, 2022 |

Members of the International Program Committee (IPC):

- Chair of the IPC: Hans-Georg Weigand (Germany)
link with TWG16 at CERME11, chair of MEDA1 and MEDA2
- Co-chairs: Ana Donevska-Todorova (Germany/Macedonia)
link with TWG16 at CERME11, IPC Member at CERME12, co-chair at MEDA1 and MEDA2
- Eleonora Faggiano (Italy)
link with TWG16 at CERME12, co-chair at MEDA1 and MEDA2
- Paola Iannone (UK)
link with TWG21 at CERME12, plenary talk at MEDA2
- Michal Tabach (Israel)
link with TWG24 at CERME12
- Melih Turgut (Norway/Turkey)
link with TWG15 at CERME12
- Members: Andreas Eichler (Germany) – member of the ERME board
Ghislaine Gueudet (France) – member of the ERME board
Gülay Bozkurt (Turkey) YR – link with TWG15 at CERME12
Alison Clark-Wilson (UK) – link with TWG15 at CERME12
Janka Medová (Slovakia) – link with TWG11 at CERME12
Morten Misfeldt (Denmark) – link with TWG23 at CERME12
Jana Trgalova (France) – link with TWG15 at CERME09

Members of the Local Organizing Committee (LOC):

- Chair of the LOC: Janka Medová – Chair of the LOC
- Members: Soňa Čeretková
Gabriela Pavlovičová
Kitti Páleniková
Silvia Haringová (YR)



Venue:

Place: Constantine the Philosopher University in Nitra, Slovakia

Time: 7. - 9. September 2022

Intended number of active contributions: 60

Type of the conference: f-2-f, virtual or hybrid conference to be decided later depending on the pandemic situation

Plenary and panel contributions:

- Jana Trgalova (Claude Bernard University Lyon 1): Design of digital resources by and for mathematics teachers
- Annalisa Cusi (Sapienza University of Rome): Formative assessment in Mathematics in the digital age: teacher's practices and roles
- Panel Discussion: Prof. Ivan Kalaš (Comenius University in Bratislava) and Iveta Kohanová (Norwegian University of Science and Technology, Trondheim): The potential of computational thinking for mathematics education

Additional information:

Support of expected young researcher participants

- We aim for 20% participation by early career researchers by encouraging experienced researchers to attend with a less-experienced colleague.
- Possibilities to actively support and engage young researchers will be given in the Second Announcement.

Proceedings, Publication and Dissemination:

- Peer reviewed digital proceedings on the web page of the conference or on HAL Archive (<https://hal.archives-ouvertes.fr/>)
- The IPC will explore the opportunity:
 - o A special issue or selected contributions in IJRUME and/or other international journals for research in mathematics education.