

INDRUM2026
Sixth conference of the
International Network for Didactic Research in University Mathematics (INDRUM)
15–19 June 2026, Dubrovnik (Croatia)

<https://indrum2026.sciencesconf.org/>

INDRUM 2026 is an ERME Topic Conference

Third announcement

We are pleased to announce INDRUM2026, the sixth conference of the International Network for Didactic Research in University Mathematics, to be held 15-19 June in Dubrovnik (Croatia). This conference is an activity of the International Network for Didactic Research in University Mathematics (INDRUM), which aims to contribute to the development of research in didactics of mathematics at all levels of tertiary education, with a particular focus on supporting new researchers in the field and on a dialogue between the communities of Mathematics and Mathematics Education. The target audience of this conference are researchers in the didactics of mathematics, mathematicians, as well as teachers and researchers who are interested in university mathematics education.

The scientific programme of the conference is presented below. It comprises a joint plenary lecture by Birgit Pepin (Eindhoven University of Technology, The Netherlands) and Davor Horvatić (University of Zagreb, Croatia); a plenary panel featuring Tommy Dreyfus, Ghislaine Gueudet, Thomas Hausberger, Elena Nardi and chaired by Viviane Durand-Guerrier; seven thematic working groups (TWGs) with short communications in parallel (three 120-minute sessions) and TWG discussion sessions (three 90-minute sessions); a poster exhibition; and a workshop for early-career researchers. The main language of the conference is English. There is the possibility to present a paper in Croatian, provided the presenter considers how to address the conference audience in its linguistic diversity through slides or a handout in English. Pre-conference proceedings are now available on the website. The final version of the proceedings will be posted on the open archive HAL <https://hal.science/INDRUM>

Scientific programme

Workshop for early-career researchers – Coordinators: Elena Nardi (University of East Anglia, United Kingdom), Megan Wawro (Virginia Tech, United States), and Luca Lamanna (University of Milan “Statale”, Italy)
Monday, 15 June, 10:00–14:00

Plenary talk: Human-(Generative) AI collaboration in mathematics education: Where is the agency? – Birgit Pepin and Davor Horvatić
Monday, 15 June, 15:00–16:45

Plenary panel: Ten Years of INDRUM, ten years of IJRUME: Looking back and looking forward – Tommy Dreyfus, Ghislaine Gueudet, Thomas Hausberger, Elena Nardi and chaired by Viviane Durand-Guerrier
Thursday, 18 June, 09:00–11:00

Poster session: Wednesday, 17 June, 14:30–16:30

Thematic working groups (TWGs)

TWG1a: *The teaching and learning of analysis and calculus*

Chairs: Nicolas Grenier-Boley (France), Vahid Borji (Czech Republic)

TWG1b: *The teaching and learning of algebra and proof*

Chairs: Igor’ Kontorovich (Hong Kong), Frank Feudel, (Germany)

TWG2: *The teaching and learning of university mathematics across different disciplines including mathematical modelling*

Chairs: Heidi Strømshag (Norway), Jennifer Czocher (United States)

TWG3: *Transitions to, across, and beyond university mathematics*

Chairs: Olov Viirman (Sweden), Reinhard Hochmuth (Germany)

TWG4: *Digital technologies in the teaching and learning of university mathematics, including artificial intelligence*

Chairs: Erik Hanke (Germany), Giovannina Albano (Italy)

TWG5: *Teaching university mathematics: practices, innovation, and professional development*

Chairs: Sinead Breen (Ireland), Ann O’Shea (Ireland)

TWG6: *Equity and affect in university mathematics education*

Chairs: Robin Göller (Germany), Emily Cilli-Turner (United States)

INDRUM2026 Timetable

Monday, 15 June		
10:00–14:00	Workshop for INDRUM Early Career Researchers Guidelines	Room TBC
14:15–15:00	Opening	Room TBC
15:00–16:45	Plenary talk: <i>Human-(Generative) AI collaboration in mathematics education: Where is the agency?</i> Birgit Pepin (Eindhoven University of Technology, The Netherlands) and Davor Horvatić (University of Zagreb, Croatia)	Room TBC
16:45–17:15	Coffee break	Room TBC
17:15–18:15	TWGs Session 1 – Introduction	Room TBC
18:30–19:30	Welcome reception	Room TBC
Tuesday, 16 June		
9:00–11:00	TWGs Session 2 – Presentations	Room TBC
11:00–11:30	Coffee break	Room TBC
11:30–13:00	TWGs Session 3 – Thematic discussion	Room TBC
13:15–14:15	Lunch	Room TBC
14:30–16:30	TWGs Session 4 – Presentations	Room TBC
16:30–17:00	Coffee break	Room TBC
17:00–18:30	TWGs Session 5 – Thematic discussion	Room TBC
Wednesday, 17 June		
9:00–11:00	TWGs Session 6 – Presentations	Room TBC
11:00–11:30	Coffee break	Room TBC
11:30–13:00	TWGs Session 7 – Thematic discussion	Room TBC
13:15–14:15	Lunch / IJRUME Editorial Board Meeting	Room TBC
14:30–16:30	Poster session [A0 poster in portrait format. <u>Posters must be printed and brought along</u>]	Room TBC
16:30–17:00	Coffee break	Room TBC
17:00–19:00	Networking for participants INDRUM INSC and INCG Meetings	Room TBC
Thursday, 18 June		
9:00–11:00	Plenary panel: <i>Ten Years of INDRUM, ten years of IJRUME: Looking back and looking forward</i> Chair: Viviane Durand-Guerrier (University of Montpellier, France)	Room TBC
11:00–11:30	Coffee break and group picture	Room TBC
11:30–13:00	TWGs Session 8 – Preparation of summary	Room TBC
13:00–14:30	Lunch	Room TBC
<i>Excursion</i>		
19:30–23:00	Gala Dinner	Room TBC
Friday, 19 June		
9:00–10:00	TWGs Session 9 – Finishing the summary	Room TBC
10:00–10:30	Coffee break	Room TBC
10:30–11:30	Plenary TWGs presentation	Room TBC
11:30–12:15	Closing ceremony of INDRUM 2026	Room TBC

Plenary talk: *Human-(Generative) AI collaboration in mathematics education: Where is the agency?*
Birgit Pepin (Eindhoven University of Technology, The Netherlands) and Davor Horvatić (University of Zagreb, Croatia)

This presentation examines the evolving role of artificial intelligence (AI) in university mathematics education through the lens of two contrasting theoretical perspectives: the instrumental approach and Actor-Network Theory (ANT). While the instrumental approach conceptualizes AI as a tool employed by users to achieve predefined goals, ANT foregrounds the distributed agency of both human and non-human actors, positioning AI as an active participant within socio-technical networks. Building on these perspectives, we argue that contemporary generative AI challenges traditional assumptions by operating not only as a tool, but increasingly as a quasi-agent that can shape reasoning processes, interactions, and outcomes in human-like ways. By juxtaposing instrumental and relational perspectives, the presentation provides a nuanced account of how AI is enacted in practice and how its role shifts depending on the learning environment and the analytical lens adopted. The findings underscore the need to move beyond simplistic tool-based conceptions and to critically examine the implications of treating AI as an active agent in educational settings.

Plenary Panel: *Ten Years of INDRUM, ten years of IJRUME: Looking back and looking forward*

Tommy Dreyfus (Tel Aviv University, Israel)
Ghislaine Gueudet (University of Paris-Saclay, France)
Thomas Hausberger (University of Montpellier, France)
Elena Nardi (University of East Anglia, United Kingdom)
Chair: Viviane Durand-Guerrier (University of Montpellier, France).

In 2015, a group of scholars who had attended working groups on university mathematics education (UME) at CERME and ICME conferences for several years created an international network for didactic research in university mathematics: INDRUM. Also in 2015, the first volume (three issues) of the newly created International Journal of Research in Undergraduate Mathematics Education - IJRUME - appeared. The first INDRUM conference was held in 2016 at the University of Montpellier in France. The 2018, 2020 (online), 2022 and 2024 conferences were held in Kristiansand (Norway), Bizerte (Tunisia), Hannover (Germany) and Barcelona (Spain). INDRUM's peer-reviewed conference proceedings are available on the open archive HAL. The communications at INDRUM conferences have inspired articles in IJRUME, including one special issue (2018). The members and chair of this panel have been active members of either INDRUM or IJRUME, or both. They will debate the trials and tribulations, journeys taken so far and paths to be paved for the future of INDRUM and IJRUME. Join them in this debate, celebrating these milestone anniversaries for UME research!

A Workshop for INDRUM early-career researchers

Elena Nardi (University of East Anglia, UK)
Megan Wawro (Virginia Tech, United States)
Luca Lamanna (University of Milan "Statale", Italy)

In this workshop, we will share insights and advice from various aspects of our experiences in the profession, such as preparing a manuscript for submission to a peer-reviewed mathematics education research journal. Participants will have the optional opportunity to share and get feedback on an outline of a journal paper they are working on. The workshop will also have space for participants to reflect on their own needs in their current career stages. We hope the workshop will be a productive space for building community and making connections. Participants are kindly asked to prepare for this workshop according to the brief guidelines given on the conference [website](#). It is important to consider that the number of participants in this workshop is limited to 40 participants.

Committees

Chris Rasmussen (San Diego, USA) IPC Chair, crasmussen@sdsu.edu ; Imène Ghedamsi (Tunis, Tunisia) IPC Co-chair, ighedamsi@yahoo.fr ; Matija Bašić (Zagreb, Croatia) LOC Chair, mbasic@math.hr; Željka Milin Šipuš (Zagreb, Croatia) LOC Co-chair

IPC Members

Matija Bašić (Zagreb, Croatia), Ignasi Florensa (Barcelona, Spain), Alejandro González-Martín (Montreal, Canada), Ghislaine Gueudet (Paris, France), Thomas Hausberger (Montpellier, France), Max Hoffmann (Paderborn, Germany), Angeliki Mali (Heraklion, Greece), Kristina Markulin (Barcelona, Spain), Elena Nardi (Norwich, UK), Megan Wawro (Blacksburg, USA), Carl Winsløw (Copenhagen, Denmark)

LOC Members

Aleksandra Čižmešija (Zagreb), Ana Katalenić (Osijek), Jelena Pleština (Split), Marijana Pećarević (Dubrovnik)