

Inclusive Mathematics Education based on Digital Learning

Bologna, October 23, 2023



Contributors

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Scientific and Organizing Committee

Francesco Beccuti (University of Cagliari), Andrea Maffia (University of Bologna), Margherita Piroi (University of Torino), Francesco Salvarani (University of Pavia)

Program

Morning session, 9:00-12:50

Location: Aula GIS – Dipartimento di Geologia – Via Zamboni 67

- 9:00-9:15** The IMEDiL project
Francesco Salvarani (University of Pavia)
- 9:15-9:55** Between active learning and traditional lecture: design choices for a course about linear algebra in an engineering degree
Margherita Piroi (University of Torino), Alessia Cattabriga (University of Bologna)
- 9:55-10:35** Promoting inclusion at tertiary level from the perspective of the INDRUM community: scaffolding vs filtering approach
Laura Branchetti (University of Milano)
- 10:50-11:30** Mathematics, technology, and inclusion: teaching, learning, and researching
Eleonora Faggiano (University of Bari), Roberto Capone (University of Bari),
- 11:30-12:10** Self-evaluation and difficulties in mathematics of first-year university students: UniTN and the UniCo-InMat project
Aaron Gaio (University of Trento)
- 12:10-12:50** Thinking groups to enhance university mathematics students' competences and identities
Giovannina Albano (University of Salerno), Samuele Antonini (University of Firenze), Cristina Coppola, Annamaria Miranda, Luca Picariello (University of Salerno)

Afternoon session, 13:50-17:00

Location: Aula Enriques – Dipartimento di Matematica – P.zza Porta S.Donato 5

- 13:50-14:30** DIGiMATH: towards a digital culture. How technology changes and can improve students' learning and attitude in mathematics
Giovannina Albano (University of Salerno), Domenico Brunetto (Politecnico Milano), Agnese Telloni (University of Macerata)
- 14:30-15:10** Using short video lectures to enhance mathematics learning: Technical suggestions and practical implementation
Elena Sartori (University of Padova)
- 15:25-16:05** Technologies for accessibility of STEM subjects: proposals for university teaching
Cristian Bernareggi (University of Milano) Carola Manolino (University of Valle d'Aosta)
- 16:05-16:45** Moodle as tool for inclusion: the example of multivariate calculus
Francesco Beccuti (University of Cagliari), Andrea Maffia (University of Bologna), Francesco Salvarani (University of Pavia)
- 16:45-17:00** Conclusion