

9-11
SEPTEMBER
2025

University of Luxembourg
Campus Belval
Maison du Savoir (MSA)
3rd floor



Education
& Social Work

CADGME 2025

Conference on Digital Tools in Mathematics Education

**PRACTICAL
INFORMATION
AND CONFERENCE
AGENDA**



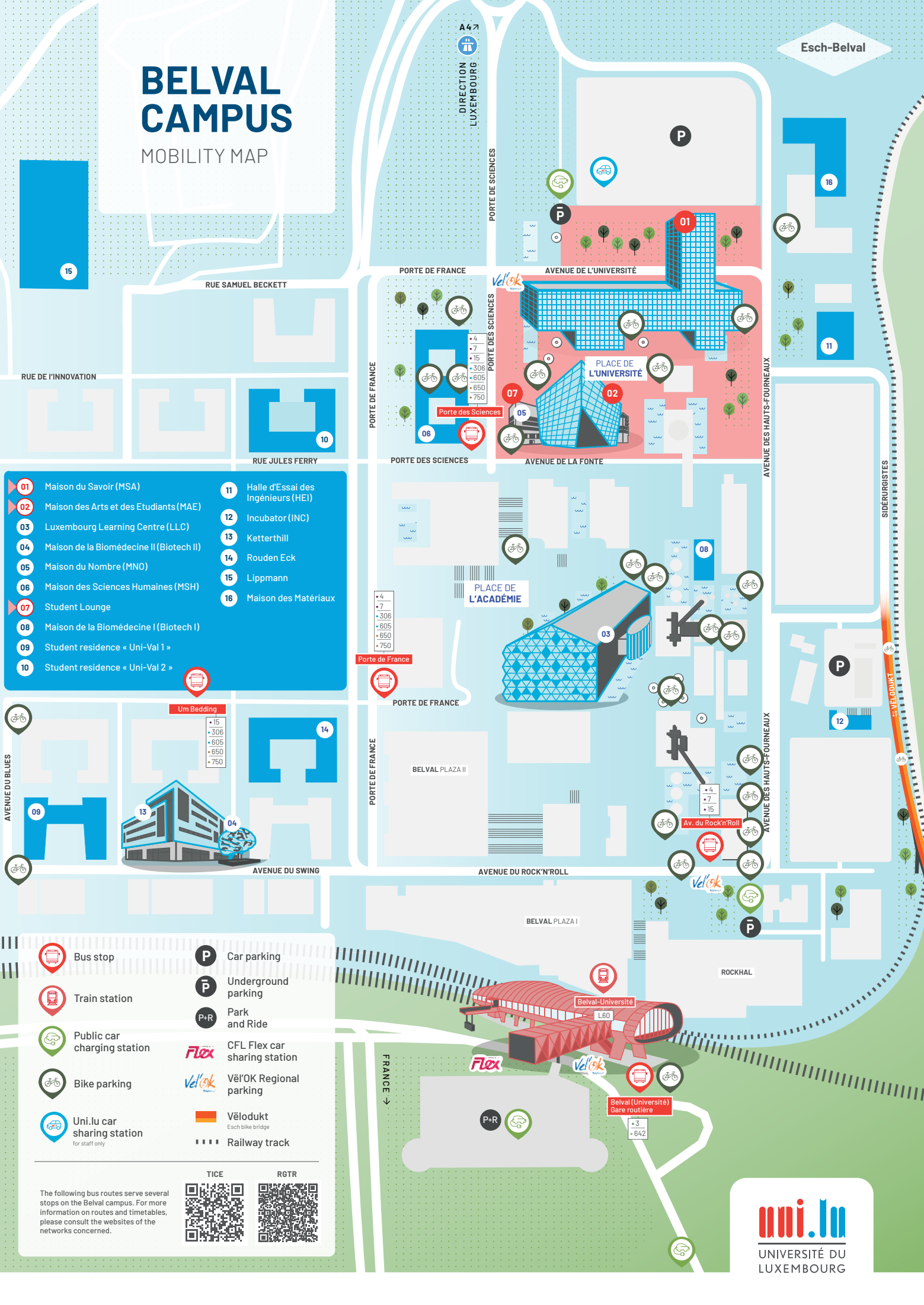
CADGME



FACULTY OF HUMANITIES,
EDUCATION AND
SOCIAL SCIENCES

BELVAL CAMPUS

MOBILITY MAP



- 01 Maison du Savoir (MSA)
- 02 Maison des Arts et des Etudiants (MAE)
- 03 Luxembourg Learning Centre (LLC)
- 04 Maison de la Biomédecine II (Biotech II)
- 05 Maison du Nombre (MNO)
- 06 Maison des Sciences Humaines (MSH)
- 07 Student Lounge
- 08 Maison de la Biomédecine I (Biotech I)
- 09 Student residence « Uni-Val 1 »
- 10 Student residence « Uni-Val 2 »
- 11 Halle d'Essai des Ingénieurs (HEI)
- 12 Incubator (INC)
- 13 Ketterthill
- 14 Rouden Eck
- 15 Lippmann
- 16 Maison des Matériaux

- Bus stop
- Train station
- Public car charging station
- Bike parking
- Uni.lu car sharing station for staff only
- Car parking
- Underground parking
- Park and Ride
- CFL Flex car sharing station
- Vêl'OK Regional parking
- Vêlodukt Esch bike bridge
- Railway track

The following bus routes serve several stops on the Belval campus. For more information on routes and timetables, please consult the websites of the networks concerned.

TICE

RGTR

Practical information

Conference venue (Belval Campus)

Belval Campus is the University of Luxembourg's main site. Close to Esch-sur-Alzette, Luxembourg's second largest city, Belval combines research with teaching and urban life with leisure activities. Once home to Luxembourg's largest steelworks, this site now features research and learning facilities, the University library and learning centre as well as student accommodation. The campus is located at the centre of an urban district and has excellent connection to public transportation.

The conference will take place on the **3rd and 4th floor of the Maison du Savoir** (2, place de l'Université, L-4365 Esch-sur-Alzette; **building #01 on the Mobility Map**, entrance 'Auditoires').

How to get to the venue

The website of the Luxembourg Transport Association, mobiliteit.lu, allows you to easily plan your journey.

All public transport, including buses, trains and trams, is free throughout Luxembourg.

From Luxembourg airport to Luxembourg Central Station (Luxembourg Gare Centrale)

- Tram Line T1 takes you to Luxembourg Central Station (journey time: approximately 28 minutes).
- Bus lines 29 and 223 take you to Luxembourg Central Station (journey time: approximately 25-30 minutes).

From Luxembourg Central Station to Esch-sur-Alzette and Campus Belval (Belval-Université)

Construction work

Please note that due to construction work, train services between Luxembourg and Bettembourg are disrupted until 15 September 2025, 4:00 a.m.. Replacement buses are provided.

Primary bus departure points at Luxembourg Gare are Quai 101 and Quai 102 (look for CFL signage).

Taxis

Taxis in Luxembourg can be expensive, with fares from the airport to the campus ranging from 85 EUR to 150 EUR, and from Luxembourg Central Station starting at 60 EUR (depending on the time of day). WEBTAXI offers transparent, fixed pricing with guaranteed quotes and convenient [online booking](#).

Parking on Belval Campus

Paid parking (outdoor and underground) is available throughout the Campus, including the Maison du Savoir car park and the P+R Belval Université (see Mobility Map).

Practical information

Registration

Registration will take place on **Tuesday, 9 September, from 8:30 am onwards at the Maison du Savoir (MSA), 3rd floor**. The desk will open each morning at 8:30 am. To help staff easily identify conference participants, please wear your badge prominently at all times.

Coffee and lunch breaks

Coffee breaks and lunches will be served for all participants on the 3rd floor of the MSA.

Conference dinner

The Conference dinner will be held on Wednesday, 10 September 2025, from 8:00 pm at the **Brasserie K116** (116, rue de Luxembourg, L-4221 Esch-sur-Alzette). A **shuttle service** will be available to bring you to the venue. Please bring your conference badge.

Shuttle bus schedule

Wednesday, 10 September 2025		
To Brasserie K116, Esch-sur-Alzette	2 buses	
Ibis Belval, bus stop 'Avenue du Rock'n' Roll'	7:15 pm	
Brasserie K116	7:30 pm	
To Ibis Belval // Luxembourg-City	1 bus	1 bus
Brasserie K116	11:00 pm	11:00 pm
Ibis Belval, bus stop 'Avenue du Rock'n' Roll'	11:15 pm	11:15 pm
Luxembourg, Boulevard de la Petrusse (bus stop 'Spuerkeess')	11:40 pm	

Excursion (City Promenade, Luxembourg City)

All participants who have registered for the excursion are invited to enjoy the 2-hour walking tour to discover Luxembourg City accompanied by an official guide. A **shuttle bus** will leave Belval Campus on **11 September, at 2:30 pm (departure: behind the MSA building)** and will take you to Luxembourg City.

Coffee shops and dining options

Below is a selection of spots for coffee and food, all offering vegetarian and vegan choices.

Campus Belval

- Dalmat Coffee House (coffee shop), 6 Ënnert den Héichiewen ([find me on Google Maps](#))
- Café Saga (bistro), 6 Ënnert den Héichiewen ([find me on Google Maps](#))
- MyCaffé (Italian cuisine), 6 Av. de la Fonte ([find me on Google Maps](#))
- Urban Belval (local fusion), 7 Av. du Rock'n'Roll ([find me on Google Maps](#))

Practical information

Coffee shops and dining options

Campus Belval (cont'd)

- Le T'Chiz Belval (comfort French), 1 Place de l'Académie ([find me on Google Maps](#))
- Nonna Nenetta 2.0 (Italian cuisine), 3 Av. du Swing ([find me on Google Maps](#))

Esch-sur-Alzette

- Escher Kafé (coffee shop), 55 Rue du Clair-Chêne ([find me on Google Maps](#))
- 24 Brunch & Cocktails (brunch restaurant), 101 Rue de l'Alzette ([find me on Google Maps](#))
- Brasserie K116 (local fusion) & KUFA Summer Bar, 116 Rue de Luxembourg ([find me on Google Maps](#))
- Cloud Factory Esch (pizza), 89 Rue de l'Alzette ([find me on Google Maps](#))

For coffee shops and dining options in Luxembourg city, we recommend visiting the restaurant pages of [Visitluxembourg](#) and the [Luxembourg Tourist Information](#).

Conference WiFi

Eduroam is available on Belval Campus. All conference participants can also use the dedicated conference network:

- Network name: CADGME2025
- Password: CADGME_UL2025

Contact and support

Main contact

Yves Kreis: yves.kreis@uni.lu

Conference Helpline (only for emergencies): +352 46 66 44 93 29

Conference email: cadgme2025@uni.lu

Emergency contact

First aid while on campus: +352 46 66 44 55 55

Police: 113

Medical emergencies: 112

Conference Agenda

Tuesday, 9 September 2025

8:30 - 9:00	Registration Location: Hall (MSA 3rd floor)			
9:00 - 9:30	Opening Ceremony Location: Auditorium (MSA 3rd floor - 3.530)			
9:30 - 10:30	Keynote Location: Auditorium (MSA 3rd floor - 3.530) Chair: Yves Kreis			
Empowering Inclusion: Unlocking Opportunities in Special Needs Education Through STEAM				
Ben Haas				
10:30 - 11:00	Coffee Break Location: Hall (MSA 3rd floor)			
11:00 - 1:00	Parallel Session Location: Seminar Room (MSA 4th floor - 4.510) Chair: Potheimi Vailioli	Parallel Session Location: Seminar Room (MSA 4th floor - 4.520) Chair: Carole Dording	Parallel Session Location: Seminar Room (MSA 4th floor - 4.010) Chair: Robert A.P. Reuter	Parallel Session Location: Seminar Room (MSA 4th floor - 4.020) Chair: Ann Kiefer
	11:00am - 11:30am Feasibility Study of E-Assessment of Mathematics Exams Using ChatGPT vs. Halomda: Pros and Cons Mariana Durcheva, Philip Slobodsky	11:00am - 11:30am Designing a Geo-Cultural Platform for STEAM Education: A Participatory Initiative in East Africa Musa Saimon, Fredrick Mtenzi, Elisabeth Mascha, Zsolt Lavicza, Houssam Kasti, Yves Kreis	11:00am - 11:30am Implementing Inquiry-Based Instruction in a Technology-Rich Classroom Min Chen, Michiel Doorman, Rogier Bos	11:00am - 11:30am Application of Augmented Reality (AR) Technology and Edpuzzle Platform Integration in Teaching the Topic "Distance in Space" to Enhance Learning Effectiveness Sy Nam Pham, Cong Phuoc Le, Zsolt Lavicza
	11:30am - 12:00pm Open-ended tasks in an online assessment system to develop secondary school students' collective mathematical work Jorge Gaona	11:30am - 12:00pm Representing Mathematics in Student-Created Soundtracks for Teaching Units Tzur Levin, Anatoli Kouropatov, Tal Weiss, Amira Erlich, Ronen Shapira	11:30am - 12:00pm Launching a Function Art Competition: Insights from a School-Based Pilot in the Philippines Guillermo Jr Bautista, Wahid Yulianto, Zsolt Lavicza, Kristof Fenyvesi	11:30am - 12:00pm Integrating computational and instrumental thinking in undergraduate Mathematics studies M. Pilar Vélez, Rosario Rubio, Carolina Mendoza
Workshop Location: Seminar Room (MSA 4th floor - 4.030) 11:00am - 12:00pm Exploring Mathematical Thinking Through Play: GeoGebra Game Applets as Didactical Tools Monika Musilek				

	12:00pm - 12:30pm Using example generation tasks for formative assessment in mathematics: Investigating correct/incorrect feedback <u>Siri Ovedal-Hakstad</u>	12:00pm - 12:30pm Personalizing Geometry Teacher Development through AI: A Design-Based Research Approach Inbal Israel, <u>Hassan Ayoob</u>, Osama Swidan	12:00pm - 12:30pm Sequencing, interactivity, and feedback in digital mathematics textbooks for Japan and England Christian Bokhove, Kotaro Komatsu, Katsuyuki Koishizawa, Toshio Kondo, Nobuhiko Shinomiya	12:00pm - 12:30pm Generative AI in Mathematics Teacher Education: Designing Support Preservice Teacher's Skills <u>Mathias Tejera</u>, Sebastian Parodi, Selen Galic, Zsolt Lavicza
	12:30pm - 1:00pm A Digital Compass Approach to Tracking Geometric Constructions for Formative Assessment Fumiko Yasuno, Tomo Asakura, Hiroshi Miyazawa, Masamitsu Ito, Toshiko Horie, Thanh-Nghia Truong, Masaki Nakagawa	12:30pm - 1:00pm Integrating Mathematics through Interdisciplinary STEAM Activity Plans: Insights from a Transdisciplinary Teacher Training Program Laura Frentescu Tordai, Carmen Cretu, Zsolt Lavicza, <u>Houssam Kasti</u>	12:30pm - 1:00pm To Err is Human: Computer-Based Approach to the Error Carried Forward Principle <u>Dóra Margit Szegő</u>	12:30pm - 1:00pm Bridging the Gap Between EdTech Companies and Universities: A Three-Phase Needs Assessment Framework Filiz Mumcu, <u>Zsolt Lavicza</u>, Luis Pastor, Piedad Tolmos, Janika Leoste
1:00 - 2:30	Lunch Location: Hall (MSA 3rd floor)			
2:30 - 4:30	Parallel Session Location: Seminar Room (MSA 4th floor - 4.510) Chair: Robert A.P. Reuter 2:30pm - 3:00pm Scaffolding Preservice Mathematics Teachers' Instructional Design Using GeoGebra Illustrative Mathematics Digital Tasks Hatice Aydan Kaplan, <u>Houssam Kasti</u>, Zsolt Lavicza	Parallel Session Location: Seminar Room (MSA 4th floor - 4.520) Chair: Ann Kiefer 2:30pm - 3:00pm On the Paradigmatic Praxeology of Task Design with ChatGPT: A Case Study in Designing Mathematical Modeling and Problem-Posing Tasks <u>Farzad Radmehr</u>	Parallel Session Location: Seminar Room (MSA 4th floor - 4.010) Chair: Carole Dording 2:30pm - 3:00pm Unlocking Adaptive Learning: Teachers' Perceptions and Implementation Strategies in Secondary Mathematics Classrooms Selina Baldinger, Jonas Mayrhofer, Robert Weinhandl	Parallel Session Location: Seminar Room (MSA 4th floor - 4.020) + Remote Chair: Zsolt Lavicza 2:30pm - 3:00pm Delving into a Practical Application of a Digital Escape Room for Mathematics Assessment in Higher Education Carla M.A. Pinto, Deolinda Rasteiro, Zsolt Lavicza

	3:00pm - 3:30pm Artificial Intelligence and mathematics task design within STEM projects <u>Jose Manuel Diego Mantecón</u>, Zaira Ortiz Laso, Mathias Tejera, Camilo Sua	3:00pm - 3:30pm Using digital fabrication for making manipulatives – the revival of concrete material in the digital era. <u>Henrik Stigberg</u>	3:00pm - 3:30pm A Comparative Analysis of AI Chatbots for Supporting Computational Thinking through GeoGebra Commands in Mathematics Education Wahid Yunianto, Selen Galic, Kucisti Ike Retnaningtyas, <u>Dian Rineta</u>, Zsolt Lavicza	3:00pm - 3:30pm CHATGPT-4 PERFORMANCE IN SOLVING MATHEMATICAL ANALYSIS EXAMS IN HIGHER EDUCATION: A CRITICAL EVALUATION Carla <u>Martinho</u>, Sandra Gaspar <u>Martins</u>
	3:30pm - 4:00pm Investigating 3D Modeling Understanding in TVET for Engineering Education in Indonesia: A Rasch Analysis Andri Setiawan, Soeharto Soeharto, Zsolt Lavicza	3:30pm - 4:00pm Butterfly Locus Problems <u>Manal Hasib Gabour</u>	3:30pm - 4:00pm Interaction Between Gen AI and High School Students in the Mathematics Classroom <u>Maisa Khateb</u>, Osama Swidan	3:30pm - 4:00pm Self-study on the integration of digital technologies in mathematics education with mathematics teacher educators Monika Dockendorff, Zsolt Lavicza, Mathias Tejera
	4:00pm - 4:30pm Bertrand paradox ++ <u>István László</u>, Péter Szabó	4:00pm - 4:30pm Teachers Generating Math Problems with Gen-AI: Characteristics, Challenges, and Opportunities <u>maisam raval</u>, Osama Swidan	4:00pm - 4:30pm How Digital Tools Reshape the Teacher's Role in Primary Mathematics Education Rafikh Shaikh, <u>Harita Raval</u>, Zsolt Lavicza	4:00pm - 4:30pm Extension of the curriculum with a STEAM approach: Dynamical Geometry and automated methods <u>Thierry Noah Dana-Picard</u>
4:30 - 5:00	Coffee Break Location: Hall (MSA 3rd floor)			
5:00 - 6:00	Poster Session Location: Hall (MSA 3rd floor)			
The POLY-UNIVERSE game family for STEAM education in preschool and primary school <u>Edith Debrenti</u>, Andrea Bordas				
Smart intelligence? Promoting mathematical communication and reflection competencies through learning with AI <u>David Stadler-Bier</u>, Stefan Pohlkamp				
Physical Electronic Stationery on Electronic Paper Focusing on Digital Compass Tools. <u>Hiroshi Miyazawa</u>, Tomo Asakura, Masamitsu Ito, Toshihiko Horie, Fumiko Yasuno, Masaki Nakagawa				

The Role of Digital Tools in Learning Outcomes for Mathematical Modelling and Data Analysis Students at Gdansk University

Iwona Krzyzanowska, Aleksandra Nowel

The Relationship Between Knowledge and Understanding of Definitions and Success in Undergraduate Mathematics Courses

Shlomit Bergman

Using ChatGPT as a Tutor to Solve Math Word Problems: Effectiveness and Challenges

Liis Mardj, Sirje Pihlap

Digitally Supported Team-Based Learning in a Discrete Mathematics Course: Student Reflections and Pedagogical Implications

Kati Ain, Tiina Kraav

Does GeoGebra Make a Difference? A Study of Learning Outcomes and Attitudes in Learning Linear Functions and Inverse Variation in 7th grade

Sirje Pihlap

Bridging Linguistic and Technological Challenges: Russian-Speaking Primary Mathematics Teachers' Experiences with ChatGPT in Estonian-Language Instruction

Tiina Kraav, Kerli Orav-Puurand

INCOLTS: A Framework for Teachers to Bridge STEAM+, Science, and Education through Technology-Enhanced Learning

Eva Schmidthaler, Barbara Sabitzer, Zsolt Lavicza

Wednesday, 10 September 2025

9:00 - 10:00	Keynote Location: Auditorium (MSA 3rd floor - 3.530) Chair: Yves Kreis			
10:00 - 10:30	CADGME, IJTME and the use of technological tools in future mathematics education <u>Taro Fujita</u>			
10:30 - 1:00	Coffee Break Location: Hall (MSA 3rd floor)	Parallel Session Location: Seminar Room (MSA 4th floor - 4.510) Chair: Carole Dording	Parallel Session Location: Seminar Room (MSA 4th floor - 4.520) Chair: Piedad Tolmos	Parallel Session Location: Seminar Room (MSA 4th floor - 4.010) Chair: Sergei Glotov
	10:30am - 11:00am Smart Geometry Teaching: Combining AI Tools, E-Assessment, and Constructivist Learning Approaches <u>Lilla Korenova</u> , <u>Katerina Biernatova</u>	10:30am - 11:00am Developing an Automated Tool for Assessing Understanding of Definitions in a Calculus Course <u>Shlomit Bergman</u> , <u>Yisca Kares</u>	10:30am - 11:00am Integrating 3D Printing Technology into STEM Education: A Case Study of Designing Mini 3D Projectors in Classroom Sy Nam Pham, Duy Thieu Nguyen, <u>Zsolt Lavicza</u>	10:30am - 11:00am A proposal for mathematics and arts education with dynamic geometry and automated reasoning <u>Álvaro Nolla</u> , <u>Tomás Recio</u>
	11:00am - 11:30am Digital Tools in Learning Mathematics: First-Year Students' Preferences and Experience <u>Ella Puman</u> , <u>Aljona Kritševskaja</u> , <u>Natalia Saealle</u>	11:00am - 11:30am Computer-Based Investigation of Focal Conchoids of Conic Sections <u>Roman Hasek</u>	11:00am - 11:30am Exploring the Impact of FULLPROOF: A Digital Platform for Teaching Deductive Geometry to Low-Achieving Students <u>Anatoli Kouropatov</u>	11:00am - 11:30am Exploring Nitrogen Overfertilisation in Agriculture - A Digital Interdisciplinary Learning Environment <u>Lea Wilken</u> , <u>Birthe Wichmann</u> , <u>Johanna Heitzer</u>
	11:30am - 12:00pm The voice of ChatGPT to promote critical thinking in the mathematics classroom Ferdinando Arzarello, Domingo Paola, Silvia Beltramino, <u>Sara Bagossi</u> , Paolo Cazzaniga, Camilla Spagnolo, Eugenia Taranto	11:30am - 12:00pm From Sand to Symbols: Teaching Vectors in the Augmented Reality Sandbox <u>Rogier Bos</u> , Isabel Floor	11:30am - 12:00pm Integrating JGEx into the Classroom: A New Approach to Teaching Geometry Vanda Santos, Joana Teles, Pedro Quaresma, Zoltán Kovács, Anna Petiurenko	11:30am - 12:00pm Supporting Engineering Students in Mathematics: Exploring Interaction Patterns in an Online Tutoring Platform Asaad Fallaha, Maarouf Fallaha, Jimmy Karlsson, <u>Mirela Vinerean</u>
	12:00pm - 12:30pm Preparing for Digital Exams: Student Perceptions and Pedagogical Potential of STACK in Upper Secondary Mathematics Laura Pikhof, <u>Tiina Kraav</u> , Evely Kirsiaed	12:00pm - 12:30pm Analyzing the impact of students' interactions with ChatGPT on metacognitive activities: a study on mathematical problem solving in high school Umberto Dello Iacono, <u>Marco Picariello</u>	12:00pm - 12:30pm How Can You Mend Probability: Tasks with Applets <u>Maria M. Nascimento</u> , <u>Sónia Raposo</u>	12:00pm - 12:30pm Development and utilization of STACK questions with cheating resistance for a linear algebra course <u>Kentaro Yoshitomi</u>

Wednesday, 10 September 2025

	12:30pm - 1:00pm Modelling the Flexible Instructional Trajectories in Middle School Mathematics <u>Annika Volt</u>, Mart Laanpere, Kairit Tammets	12:30pm - 1:00pm Enhancing Mathematical Pattern Recognition in Sequences: A Computational Thinking Approach Using GeoGebra for Scaffolding Problem-Solving Skills <u>Sy Nam Pham</u>, Quoc Dan Tran	12:30pm - 1:00pm Designing Classrooms, Building Knowledge: A STEAM Experience with 3D Modeling and Printing in Teacher and Secondary Education <u>Leyre Gilardi</u>, Ángeles Ruíz, Javier Rodríguez-Miravalles, Lucía Rotger García, Juan Miguel Ribera-Puchades, Angélica Benito, Alvaro Nolla	12:30pm - 1:00pm Enacting Geometric Understanding: Embodied Transitions from Two-Dimensional Nets to Three-Dimensional Solids through Augmented Reality <u>Inbal Israel</u>, Osama Swidan
1:00 - 2:30	Lunch Location: Hall (MSA 3rd floor)			
2:30 - 3:30	Keynote Location: Auditorium (MSA 3rd floor - 3.530) Chair: Yves Kreis			
	Measuring the Readability of Geometric Proofs <u>Pedro Quaresma</u>			
3:30 - 4:30	Parallel Session Location: Seminar Room (MSA 4th floor - 4.510) Chair: Robert. A.P. Reuter 3:30pm - 4:00pm Undergraduate students' theoretical covariational reasoning to understand the concept of homeomorphism with GeoGebra <u>Annamaria Miranda</u>	Parallel Session Location: Seminar Room (MSA 4th floor - 4.520) Chair: Potheini Vaiouli 3:30pm - 4:00pm Linking Teachers' Pedagogical Digital Competence with Students' Motivation and Learning Experience in Mathematics Following Professional Development <u>Jüri Kurvits</u>, Kairit Tammets	Parallel Session Location: Seminar Room (MSA 4th floor - 4.010) Chair: Yves Kreis 3:30pm - 4:00pm Branching Out: Integrating Math and Nature Through Interactive Learning Trails <u>Eva Schmidthaler</u>, <u>Zsolt Lavicza</u>, Matthias Ludwig	Parallel Session Location: Seminar Room (MSA 4th floor - 4.020) Chair: Carole Dording 3:30pm - 4:00pm Supporting Early Understanding of Variables Through Online Teacher Feedback <u>Filip Moons</u>, Katrin Klingbeil
	4:00pm - 4:30pm Investigating students' first- and second-order covariational reasoning with eye-tracking <u>Sara Bagossi</u>, <u>Osama Swidan</u>	4:00pm - 4:30pm When Plans Meet Practice: Insights from a Pre-Service Teacher's Use of Dynamic Geometry <u>Gülşay Bozkurt</u>, Melike Yigit Koyunkaya	4:00pm - 4:30pm Reimagining remediation in secondary mathematics through MathemaTIC <u>Paul Ronald Klensch</u>, Christian Meyers, Gilbert Busana, Robert A.P. Reuter, Yves Kreis	4:00pm - 4:30pm Innovative STEAM Pathways: Centering Mathematics, Supporting Equity, and Leveraging Other Disciplines Primarily as Tools—Through an Electronic Platform <u>Carole Dording</u>, Gilbert Busana, Christian Meyers, Robert A.P. Reuter, Christina Siry, Yves Kreis
4:30 - 5:00	Coffee Break Location: Hall (MSA 3rd floor)			

Wednesday, 10 September 2025

5:00 - 6:00	Parallel Session Location: Seminar Room (MSA 4th floor - 4.510) Chair: <u>Sergei Giotov</u> 5:00pm - 5:30pm Enhancing STEAM Education Through AI-supported 3D Modeling and Printing: Insights from Action Research <u>Lilla Korenova</u>, <u>Angelika Schmid</u>	Parallel Session Location: Seminar Room (MSA 4th floor - 4.520) Chair: <u>Mathias Tejera</u> 5:00pm - 5:30pm Use of artifacts in 3D geometry: The Mathematical Working Space of mathematics teachers in initial training. <u>Fabiola Arévalo-Meneses</u>, <u>Elizabeth Montoya-Delgadillo</u>	Parallel Session Location: Seminar Room (MSA 4th floor - 4.010) Chair: <u>Carole Dording</u> 5:00pm - 5:30pm Why and How Mathematics Teachers Use Digital Technologies <u>Robert Weinhandl</u>, <u>Jonas Mayrhofer</u>, <u>Selina Baldinger</u>	Parallel Session Location: Seminar Room (MSA 4th floor - 4.020) Chair: <u>Robert A.P. Reuter</u> 5:00pm - 5:30pm From body-motion to graph: embodied learning of linear functions with GeoGebra Plus <u>Andrea Gherzi</u>, <u>Marzia Garzetti</u>, <u>Ornella Robutti</u>
	5:30pm - 6:00pm Understanding the Long-Term Adoption of Technology in Mathematics Education: An Expectancy-Value-Cost Approach <u>Jüri Kurvits</u>, <u>Kairit Tammets</u>	5:30pm - 6:00pm Teaching Axial and Central Symmetry in Natural World Using GeoGebra and AI: A Technology-Enhanced Learning Approach <u>Sy Nam Pham</u>, <u>Minh Duc Phung</u>, <u>Van Trung Tran</u>, <u>Zsolt Lavicza</u>	5:30pm - 6:00pm Squaring a figure is a challenge, sometimes is a tough challenge <u>Daniela Ferrarello</u>, <u>Maria Flavia Mammana</u>, <u>Sonia L'Innocente</u>, <u>Paola Palestini</u>, <u>Agnese Rita Zuccarello</u>	5:30pm - 6:00pm Designing Gamified Randomized Mathematics Tasks using GeoGebra: Experts' Opinions on the Motivational Impact on Learners <u>Jonas Mayrhofer</u>, <u>Robert Weinhandl</u>, <u>Selina Baldinger</u>
	Conference Dinner			
	8:00 - 11:00			

Thursday, 11 September 2025

9:00 - 10:00	Keynote Location: Auditorium (MSA 3rd floor - 3.530) Chair: Yves Kreis				
	Mathematical Problem Solving in the Digital Age <u>Benjamin Rott</u>				
10:00 - 10:30	Coffee Break Location: Hall (MSA 3rd floor)				
10:30 - 12:30	Parallel Session Location: Seminar Room (MSA 4th floor - 4.510) Chair: Jose Manuel Diego Mantecón 10:30am - 11:00am Addressing the demathematisation in dynamic geometry software Jeenath Rahaman, Avaniash Singh, Mathias Tejera, Zsolt Lavicza 11:00am - 11:30am Exploring the Potential of Digital Technologies in Mathematics Education through Practical Development Cases Fumiko Yasuno, Mitsuru Kawazoe, Keiichi Nishimura, Seiya Negami 11:30am - 12:00pm Exploring first-year university students' experiences with computer-aided assessment mathematical tasks with formative feedback Augusta Ratiu, Florin Sofonea, Mirela Vinerean	Parallel Session Location: Seminar Room (MSA 4th floor - 4.520) Chair: Robert A.P. Reuter 10:30am - 11:00am Choosing between human and generative AI explanations: Hungarian high school students' preferences in mathematics tasks Zoltán Kovács, Péter Perger, Csaba Csapodi 11:00am - 11:30am The use of Socratic software as assessment tool and its effect on foundation level students Houssam El-Kasti 11:30am - 12:00pm Evaluation of the difficulty of a geometric statement: comparing ChatGPT and GeoGebra Discovery Piedad Tolmos, M. Pilar Vélez, Tomás Recio	Parallel Session Location: Seminar Room (MSA 4th floor - 4.010) Chair: Potheini Vaioui 10:30am - 11:00am Numeral systems <u>Christian Mercat</u> 11:00am - 11:30am Analysing the noise in human-GenAI interaction: the role of students' beliefs Francesco Contel, Annalisa Cusi 11:30am - 12:00pm Tracing transformations: Exploring students' meaning making of vertical translation through climate-based tasks Yosep Dwi Kristanto, Teo Paoletti, Zsolt Lavicza, Russasmita Sri Padmi, <u>Guillermo Bautista</u>	Parallel Session Location: Seminar Room (MSA 4th floor - 4.020) Chair: Kerstin te Heesen 10:30am - 11:00am Enhancing LMS-Based Assessment with Handwriting Input: The Design and Implementation of HAIMR Thanh-Nghia Truong, Hung Tuan Nguyen, Masaki Nakagawa, Fumiko Yasuno 11:00am - 11:30am Ozobots in Action: Enhancing STEAM+ Education and Mathematical Skills through Robotics in Primary Education Eva Schmidthaler, Sara Hinterplattner, <u>Zsolt Lavicza</u> 11:30am - 12:00pm Self-Assessment in Mathematics with Checkbox Grading: A Way Not to Go Christel Frasa, <u>Filip Moons</u>	Workshop Location: Seminar Room (MSA 4th floor - 4.030) 10:30am - 11:30am From Theory to Practice: Exploring Innovative and Engaging STEAM Pathways with a Focus on Mathematics through an Interactive Electronic Platform Carole Dording, Gilbert Busana, Christian Meyers, Robert A.P. Reuter, Christina Siry, Yves Kreis

Thursday, 11 September 2025

	12:00pm - 12:30pm Smart intelligence? Identifying constructive competences in mathematics education for the pedagogical challenges of AI David Stadler-Bier, Stefan Pohlkamp	12:00pm - 12:30pm Constructivist Pedagogy Meets Digital Innovations: Teachers' Perceptions of GeoGebra and ChatGPT for Culturally Responsive Numeracy Education Rahmi Ramadhani, Fitria Arifiyanti, Zsolt Lavicza, Andri Setiyawan, Soeharto Soeharto	12:00pm - 12:30pm GeoGebra 3D Modelling as a Catalyst for STEM Engagement in African Classrooms: A Tanzanian Case Study Musa Saimon, Fredrick Mtenzi, Guillermo Bautista, Noah Dana-Picard, Zsolt Lavicza, Yves Kreis	
12:30 - 1:00	Closing Ceremony Location: Auditorium (MSA 3rd floor - 3.530)			
1:00 - 2:30	Lunch Location: Hall (MSA 3rd floor)			
2:30 - 6:00	Excursion			

Notes

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