

3rd International Conference on Math Education and Technology 2026 (ICMET 2026)

<https://icmet.web.ua.pt/>

Wednesday, 23 September 2026

9h00 - 9h30	RECEPTION <i>Entrance of DMAT</i>	
9h30 - 10h00	OPENING CEREMONY <i>Room: TBA</i>	
10h00 - 11h00	<i>Plenary Talk</i> I know what I eat: Open-source based automated reasoning as the transparent way of artificial intelligence <i>Zoltán Kovács</i> <i>Room: TBA</i>	
11h00 - 11h30	COFFEE BREAK & POSTER SESSION	
	<i>Room: TBA</i>	<i>Room: TBA</i>
11h30 - 11h45	Characterising Teachers' TPACK in a GeoGebra-Based Professional Development Programme Through Performance Descriptors <i>Pedro Pimenta; Cristina Costa; António Domingos</i>	The Use of Scientific Calculators for Solving Iterative Mathematical Problems in Higher Education <i>Attila Körei; Szilvia Szilágyi</i>
11h45 - 12h00	Teacher Learning with Digital Resources and Artificial Intelligence <i>Cátia Costa; Armando Soares; Maria Manuel Nascimento</i>	Freedom of Choice: Intersections Between Ethnomodeling and Experimental Mathematics <i>Elena Naftaliev</i>
12h00 - 12h15	Designing STEAM Escape Room Tasks for Computational Thinking: A Collaborative Study with Mathematics Teachers <i>Mariana Sousa; António Domingos; Maria Cristina Costa</i>	From a Disciplinary Approach to the Integration of STEAM Disciplines: A Comparative Case Study in Mathematics Classrooms <i>Patrícia Teixeira; Helena Rocha; Cristina Martins</i>
12h15 - 12h30	Teacher education in interdisciplinary teaching of Mathematics and Computing in the 3rd Cycle of Basic Education <i>Fabricio Soares; Patrícia Silva; Vanda Santos</i>	From Play to Science: STEAM-Based Teaching Practices in Primary Education <i>Hajnal Annamaria Bella; Edith Debrenti</i>

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12h30 - 12h45	Problem Posing with GeoGebra 3D as a Catalyst for Teacher Professional Development <i>Tikva Ovadiya</i>	Computer-aided Exploration of Titled Offsets <i>Thierry Dana-Picard</i>
12h45 - 13h00	Performance in numbers and operations: an analysis of knowledge dimensions among future primary school teachers in Angola <i>André António Joaquim; Ana Paula Aires; Paula Catarino; Ana Morais</i>	Maker Education from the Perspective of Papert, Freire and Skovsmose <i>Victor de Matos; Arlindo Souza Júnior</i>
13h00 - 14h30	LUNCH	
	Room: TBA	Room: TBA
14h30 - 14h45	Designing Mathematical Tasks in Authentic Environments <i>Isabel Vale</i>	Exploring Artwork with Augmented Intelligence Lenses <i>Alvaro Nolla; Tomás Recio; Rafael Losada</i>
14h45 - 15h00	Designing Mathematical Manipulatives with Technology: A Path toward Integrated Teacher Knowledge <i>Ana Barbosa</i>	GeoGebra as a tool for problem-solving in math trails <i>Melody García; Carlos Ajenjo; Alvaro Nolla; Leyre Gilardi; Angélica Benito</i>
15h00 - 15h15	Rethinking knowledge frameworks in the age of AI <i>Helena Rocha</i>	Math teachers' perceptions about STEAM <i>Sara Gonçalves; Floriano Viseu</i>
15h15 - 15h30	Usage Schemas Developed by Students in Geometry Lessons Using a Digital Textbook <i>Zainab Saker; Osama Swidan</i>	From rotations to permutations: Objectification Processes in an Interdisciplinary Task <i>Elisabetta Giuseppina Erione; Roberto Capone</i>
15h30 - 15h45	Computational Thinking in the Mathematics Classroom: A Case Study Between Knowledge and Practice <i>Cristina Marcela de Seabra; António Domingos; Manuel Vara Pires</i>	Formative Assessment in STEAM Projects in Initial Teacher Education: A Critical Umbrella Review <i>Cristina Martins; Patrícia Teixeira</i>
15h45 - 16h00	Teacher Education as a Policy of Cognition: Toward an Inventive Perspective <i>Hevellyn Silva; Arlindo Junior</i>	Maker-Oriented Didactic Choreography in Higher Education <i>Renato Mollo</i>

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16h00 - 16h30	COFFEE BREAK	
	Room: TBA	Room: TBA
16h30 - 16h45	A New Approach for Teaching Multiple Integrals Involving Geometric, Analytical and Software Connections <i>Hédi Nabli; Ilona</i>	Collective Video Analysis in Lesson Study with Preservice Mathematics Teachers <i>Nadia Kennedy</i>
16h45 - 17h00	"I thought points were just... there": A point-free path from hands-on regions to points fostering spatial reasoning and axiomatic thinking <i>Annamaria Miranda</i>	Integrating e-textbooks designed by mathematics teachers into geometry lessons <i>Esmael Almahdi; Osama Swidan</i>
17h10 - 18h10	<i>Workshop</i> Beyond Memorization: Mathematical Structures as Epistemic Tools in Piano Interpretation <i>Ingrid Carbone</i>	
18h30	WELCOME RECEPTION	

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Thursday, 24 September 2026

9h30 - 10h30	<i>Plenary Talk</i> Mathematics, Technology, Mathem-Ethics: opportunities and challenges <i>Maria Flavia Mammana</i>		Room: TBA
	Room: TBA		Room: TBA
10h30 - 10h45	Artificial Intelligence in Mathematics Education: From Open Prompts to Structured Chatbot Scenarios <i>Nuno Bastos; Isabel Duarte; Teresa Neto</i>	Developing Geometrical Reasoning through JGEx: Insights from Pre-Service Teachers <i>Vanda Santos; Joana Teles; Pedro Quaresma</i>	
10h45 - 11h00	Generative Artificial Intelligence reconfiguring learning styles in Differential and Integral Calculus <i>Bruno Bragança; Frederico Reis; José Manuel Dos Santos</i>	Conceptual blending with embodied learning technology – A study of rate of change <i>Priyadharshni Elangaivendan; Melwina Albuquerque; Shizuka Dara; M Sreenath Karthick; M Murali Karthick; Vishwaa P S; Sanjay Chandrasekharan</i>	
11h00 - 11h30	COFFEE BREAK		
	Room: TBA		Room: TBA
11h30 - 11h45	A dialogue between Advanced Mathematical Thinking and Artificial Intelligence in the context of Mathematics Education in Higher Education <i>Frederico Reis; António Domingos</i>	Reconfiguring Function Learning through Instrumental Genesis: The Use of the Graphing Calculator <i>Flávia Pereira; Floriano Viseu; Maria Paula Martins; Ana Paula Aires; Sara Cruz</i>	
11h45 - 12h00	ChatGPT Integration: Four Stages for Novice STEM Teachers <i>Tikva Ovadiya</i>	Reasoning in mathematics education: an exploratory study with modern board games <i>Ana Morais; Caroline Dominguez; Ana Paula Aires; Hélder Sousa</i>	
12h00 - 13h00	<i>Plenary Talk</i> Learning Mathematics in Higher Education in the Era of Artificial Intelligence <i>António Dias de Figueiredo</i>		Room: TBA

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13h00 - 14h30	LUNCH
14h30 - 19h30	SOCIAL PROGRAMME
20h00	CONFERENCE DINNER

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Friday, 25 September 2026

9h30 - 10h30	Plenary Talk Evaluating and Designing Digital Curricular Resources: Bridging Research and Teacher Education <i>Jana Trgalova</i>		Room: TBA
	Room: TBA		Room: TBA
10h30 - 10h45	When Students Can Ask ChatGPT: Designing Cheat Resistant Mathematics E Exams <i>Mariana Durcheva; Philip Slobodsky; Anatoli Kouropatov; Lina Vinitsky-Pinsky</i>	Teaching Experience and Teacher Knowledge for Teaching Multiplicative Thinking in the Primary School <i>Mayamiko Malola</i>	
10h45 - 11h00	Learning by Prompting: A Constructionist Analysis of Students' Mathematical Activity with GenAI <i>Mario Lepore; Roberto Capone; Eleonora Faggiano</i>	Learning as they will teach: Experiencing active methodologies in initial teacher education <i>Célia Mestre</i>	
11h00 - 11h30	COFFEE BREAK		
11h30 - 11h45	Artificial intelligence as an epistemological partner in the analysis of mathematical tasks <i>Zerrin Toker; Gizem Güzeller Sarıgöllü</i>	Increasing High School Students' Motivation to Study Mathematics Through the Use of AI in Developing Mathematical Modeling Competence <i>Larisa Sali</i>	
11h45 - 12h00	Promoting problem-based learning with artificial intelligence tools in college <i>Maria Cristina Costa</i>	The Role of AI in Teaching Mathematics in Portugal: The Case of Khanmigo <i>Patrícia Morais; Vanda Santos</i>	
12h00 - 12h15	Undergraduate students solve mathematical problems with large language models <i>Igor' Kontorovich</i>	Enhancing Pre-Service Teachers' TPACK through Peer Evaluation and Revision of Virtual Reality Geometry Lessons <i>José Luis Rodríguez Blancas; María del Mar García López</i>	
12h15 - 12h30	Artificial Intelligence and the Reconfiguration of Mathematics Teachers' Knowledge: A Scoping Review <i>Sara Cruz; Floriano Viseu; Ana Paula Aires</i>	Noticing students' thinking and developing mathematical knowledge: a study with preservice teachers <i>Joana Cabral; Hélia Oliveira; Fátima Mendes</i>	

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12h30 - 12h45	The impact of Generative AI use on student agency in university mathematics learning <i>Federica Troilo; Eleonora Faggiano</i>	A systematic literature review on measuring beliefs about technology in mathematics teaching and learning <i>Sadrack Pagiling; Safrudiannur</i>
12h45 - 13h00	Integrating Generative Artificial Intelligence into mathematics teaching: an exploratory study on pre-service teachers' knowledge <i>Maria Lucia Bernardi; Helena Rocha</i>	Gamification and Educational Robotics in Mathematics Education: Rethinking Learning Processes <i>Hevellyn Silva; Arlindo Junior</i>
13h00 - 14h30	LUNCH	
	Room: TBA	Room: TBA
14h30 - 15h30	<i>Workshop</i> Embodied Geometry with Augmented Reality: Collaborative Construction of Polygons and Solids <i>Teresa F. Blanco; Antía Fernández-López</i>	<i>Workshop</i> Enhancing the collaboration of GeoGebra Discovery and Generative AI <i>M. Pilar Vélez; Tomás Recio; Piedad Tolmos</i>
15h30 - 15h45	From Rocks to Scratch: An activity to foster future teachers' understanding of STEM <i>Neusa Branco; Bento Cavadas</i>	Beyond Solution-Seeking: How University Students Use LLMs in Mathematics Seminars <i>Michaela Tichá</i>
15h45 - 16h00	Mathematics for World-Modelling: Inclusive STEAM Projects and Social Challenges in OpenUS4All <i>Carmen Perea; Vanda Santos; Teresa Neto</i>	From Artifact to Tool: AI Supporting and Enhancing Mathematics Learning <i>Laura Gambera; Giuseppa Rita Cirmi; Salvatore D'Asero; Daniela Ferrarello; Giulia Gangi; Achille Patrizio Mammana; Maria Flavia Mammana</i>
16h00 - 16h15	Olive Growing for Children through a STEM Approach: Conceptions and Practices <i>Cristiana Ribeiro; Cristina Mesquita; Maria José Rodrigues; Manuel Vara Pires</i>	Who Speaks in the Chat? Bystander Effects and Participation Inequality in Live-Streamed Mathematics Lectures <i>JiaQi Gao; MiYing Guo; Christopher Tisdell</i>
16h15 - 16h30	Gamifying Linear Algebra: A Didactic Engineering Approach to Sustainable Mathematical Education <i>Cristina Caridade; Verónica Pereira; José Alexandre Martins</i>	Computational Thinking and Mathematics education - Integrating Python into the Calculus curriculum <i>Filipe Carvalho</i>
16h30 - 17h00	COFFEE BREAK	

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17h00 - 17h15	Can Large Language Models Solve Olympiad-Level Geometry? A Comparative Study <i>Jiří Příbyl</i>	The Bridge as a Mathematical Artefact: A Pen-Based Activity for Primary Education <i>Lilla Korenova; Angelika Schmid; Mária Belešová; Mária Anna Jediná; Katerina Biernatova</i>
17h15 - 17h30	Developing pupils' abstract and algebraic thinking within secondary school mathematics <i>Libby Chancer</i>	Students' use of technology and the mobilization of mathematical competencies in problem solving <i>Joana Madeira; Helena Rocha</i>
17h30 - 17h45	Didactic Engineering for Inclusive Mathematics in Primary Education <i>Cristina Caridade; Carla Moura; Silvia Espada; Verónica Pereira</i>	Gamified Calculus: A Digital Pedagogical Approach for Higher Education <i>Marli Moreira; Rogério Seródio; Isabella Oliveira; Victor Oliveira</i>
17h45 - 18h15	CLOSING CEREMONY	

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Poster Session

Geometry in Touch: 3D Modelling Resources for Visually Impaired Learners <i>Teresa F. Blanco; Antía Fernández-López; Cristina Lois-Prados; Francesco Buonamici; Francisco Esquembre; Antonia Baeza; José Luis Rodríguez-Blancas; Thoms Lars</i>
A Markov Chain-Based Approach to Designing and Testing Educational Games for Primary Mathematics Education <i>Szilvia Szilagyi; Edith Debrenti; Imre Piller; Attila Körei</i>
Developing Conceptual and Procedural Mathematical Knowledge Using Desmos Animations in Teacher Training <i>Szilvia Szilagyi; Attila Körei; Zsuzsanna Török</i>
Knowledge for teaching mathematics with technology in the age of generative artificial intelligence: a systematic review <i>Kelly Lima; Inajara Neves; Helena Rocha</i>
The Implementation of Maker Laboratories as a Space for Teacher Training <i>Viviane Fuly; Arlindo José Souza Jr</i>
Maker Education and Mathematics Teaching at the Federal Institute of the Triângulo Mineiro <i>Raquel Bodart; Arlindo José de Souza Júnior</i>
Teaching methodologies for students with ADHD in Brazilian research <i>Camila Silva; Tiago Klüber</i>
AE-MAFIN as support in the teaching of Financial Mathematics <i>Camila Silva; Janecler Colombo; José Donizetti de Lima</i>
Continuous monitoring and timely pedagogical intervention: a teacher decision support system for the teaching of Mathematics <i>Carla Martinho; Sofia Rézio; João Geraldes</i>