

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

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

Wednesday, 23 September 2026

9h00 - 9h30	RECEPTION <i>Mathematics Department</i>	
9h30 - 10h00	OPENING CEREMONY <i>Room: Sousa Pinto, Mathematics Department</i>	
10h00 - 11h00	<i>Plenary Talk</i> <i>Room: Sousa Pinto, Mathematics Department</i> I know what I eat: Open-source based automated reasoning as the transparent way of artificial intelligence <i>Zoltán Kovács</i>	
11h00 - 11h30	COFFEE BREAK & POSTER SESSION (Mathematics Department)	
	<i>Room: Sousa Pinto, Mathematics Department</i> <i>Chair: Margarida M. Pinheiro</i>	<i>Room: 11.2.21, Mathematics Department</i> <i>Chair: Paula Oliveira</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	Computational Thinking and Mathematics education - Integrating Python into the Calculus curriculum <i>Filipe Carvalho</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 (University Restaurant)	
	Room: Sousa Pinto, Mathematics Department Chair: Nuno Bastos	Room: 11.2.21, Mathematics Department Chair: Paula Oliveira
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; Leyre Gilardi; Alvaro Nolla; 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 Viséu</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: Pedagogical Innovation and Challenges for Teaching Quality <i>Renato Mollo; Arlindo José de Souza Júnior; Fernando Barbosa da Costa</i>

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16h00 - 16h30	COFFEE BREAK (Mathematics Department)	
	Room: Sousa Pinto, Mathematics Department Chair: Nuno Bastos	Room: 11.2.21, Mathematics Department Chair: Vanda Santos
16h30 - 16h45	A New Approach for Teaching Multiple Integrals Involving Geometric, Analytical and Software Connections <i>Hédi Nabli; Ilona Dzenite</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>
	Room: CCCI Auditorium, Department of Communication and Art	Room: 11.2.21, Mathematics Department
17h10 - 18h10	<i>Workshop</i> Beyond Memorization: Mathematical Structures as Epistemic Tools in Piano Interpretation <i>Ingrid Carbone</i>	<i>Workshop</i> Enhancing the collaboration of GeoGebra Discovery and Generative AI <i>M. Pilar Vélez; Tomás Recio; Piedad Tolmos</i>
18h30	WELCOME RECEPTION (Vegetarian Restaurant at Crasto Canteen)	

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Thursday, 24 September 2026

9h15 - 10h15	Plenary Talk Mathematics, Technology, Mathem-Ethics: opportunities and challenges <i>Maria Flavia Mammana</i> Room: Mestre Hélder Castanheira Auditorium*	
	Room: Mestre Hélder Castanheira Auditorium Chair: Nuno Bastos	Room: 11.2.21, Mathematics Department Chair: Luís Descalço
10h15 - 10h30	Artificial Intelligence in Mathematics Education: From Open Prompts to Structured Chatbot Scenarios <i>Nuno Bastos; Isabel Duarte; Teresa Neto</i>	Developing pupils' abstract and algebraic thinking within secondary school mathematics <i>Libby Chancer</i>
10h30 - 10h45	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>
10h45 - 11h00	A Design-Based Inquiry into AI-Integrated Teacher Preparation for Inclusive Secondary Mathematics <i>Darolyn A Flaggs</i>	Who Speaks in the Chat? Bystander Effects and Participation Inequality in Live-Streamed Mathematics Lectures <i>JiaQi Gao; MiYing Guo; Christopher Tisdell</i>
11h00 - 11h30	COFFEE BREAK (Mathematics Department)	
	Room: Mestre Hélder Castanheira Auditorium Chair: Nuno Bastos	Room: 11.2.21, Mathematics Department Chair: Vanda Santos
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>

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12h00 - 13h00	<i>Plenary Talk</i> Learning Mathematics in Higher Education in the Era of Artificial Intelligence <i>António Dias de Figueiredo</i>	Room: <i>Mestre Hélder Castanheira Auditorium</i>
13h00 - 14h30	LUNCH (University Restaurant)	
14h30 - 19h30	SOCIAL PROGRAMME The bus will depart from near the Rectorate Building at 14h30	
20h00	CONFERENCE DINNER (University Restaurant)	

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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: Sousa Pinto, Mathematics Department	
	Room: Sousa Pinto, Mathematics Department Chair: Margarida M. Pinheiro	Room: 11.2.21, Mathematics Department Chair: Teresa B. Neto
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	
	Room: Sousa Pinto, Mathematics Department Chair: Paula Carvalho	Room: 11.2.21, Mathematics Department Chair: Paula Oliveira
11h30 - 11h45	Artificial intelligence as an epistemological partner in the analysis of mathematical tasks <i>Zerrin Tokar; 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>	Students' use of technology and the mobilization of mathematical competencies in problem solving <i>Joana Madeira; Helena Rocha</i>
12h00 - 12h15	Can undergraduate students implement LLM-generated feedback to improve their solutions to mathematical problems? <i>Aliza Malek, Miriam N. Wallach, 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>

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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>
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 (University Restaurant)	
	Room: 11.2.21, Mathematics Department Chair: Margarida M. Pinheiro	
14h30 - 15h30	<i>Workshop</i> Embodied Geometry with Augmented Reality: Collaborative Construction of Polygons and Solids <i>Teresa F. Blanco; Antía Fernández-López</i>	
	Room: Sousa Pinto, Mathematics Department Chair: Isabel Cabrita	Room: 11.2.21, Mathematics Department Chair: Margarida M. Pinheiro
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>	Teacher education in interdisciplinary teaching of Mathematics and Computing in the 3rd Cycle of Basic Education <i>Fabício Soares; Patrícia Silva; Vanda Santos</i>

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16h15 - 16h30	Gamifying Linear Algebra: A Didactic Engineering Approach to Sustainable Mathematical Education <i>Cristina Caridade; Verónica Pereira; José Alexandre Martins</i>	Eigenvalue Localization: A Data-Driven Perspective for Modern Linear Algebra Education <i>Alexander Odriazola</i>
16h30 - 17h00	COFFEE BREAK	
	Room: Sousa Pinto, Mathematics Department Chair: Teresa B. Neto	Room: 11.2.21, Mathematics Department Chair: Vanda Santos
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	Gamified Calculus: A Digital Pedagogical Approach for Higher Education <i>Marli Moreira; Rogério Seródio; Isabella Oliveira; Victor Oliveira</i>	Developing Geometrical Reasoning through JGEx: Insights from Pre-Service Teachers <i>Vanda Santos; Joana Teles; Pedro Quaresma</i>
17h30 - 17h45	Didactic Engineering for Inclusive Mathematics in Primary Education <i>Cristina Caridade; Carla Moura; Silvia Espada; Verónica Pereira</i>	The Role of AI in Teaching Mathematics in Portugal: The Case of Khanmigo <i>Patrícia Morais; Vanda Santos</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 Heloiza da Silva; Tiago Emanuel Klüber</i>
\$AE -MAFIN as support in the teaching of Financial Mathematics <i>Camila Heloiza da 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>

CAMPI MAP

UNIVERSIDADE DE AVEIRO

All trains on the Northern line have a mandatory stop in Aveiro, and there are also several bus routes that connect it to many cities in the country. To get to the camp of Santiago and Orasto, where all UAvéiro departments, ESSUA and ISCA-UA are located, you can use the Aveiro Bus line.

If you prefer, you can choose to come on foot or by bike. Aveiro is one of the best cities for cycling, because it is very flat, and being a small city, everything is just a few steps away.

40° 37' 53" N 8° 39' 27" W

23.2.8?

what is this code?

At UAvéiro, spaces are identified by the numerical sequence "building . floor . room". If you find the designation "23.2.8", for example, you will have to go to building 23 (Pedagogical, Scientific and Technological Complex), go up to the 2nd floor and look for room 8.



34 ESAN – Aveiro Norte School of Design, Management and Production Technologies

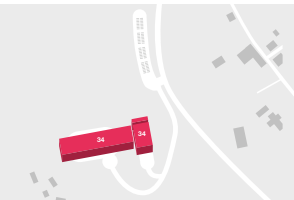
How to get there:

To get to ESAN, which is located in Parque do Cereal, in Oliveira de Azeméis, you can use Transportes Urbanos de Oliveira de Azeméis (TUAZ - Transportes Urbanos de Azeméis), and there are several other transport companies with regular connections between Oliveira de Azeméis and Porto, Aveiro or Coimbra.

It also has the Vouga railway line as an option, which connects to the Northern line at Espinho and the cities of Porto, Aveiro, Coimbra and Lisbon.

In Oliveira de Azeméis, the bicycle can also be a good alternative for traveling to Parque do Cereal

40°51'43.7"N 8°28'34.8"W



20 ESTGA – Águeda School of Technology and Management

How to get there:

To get to ESTGA, you can choose to travel by bus – Águeda has several connections with Porto, Aveiro and Coimbra – or by car, using the Vouga line which connects with the Norte line in Aveiro.

Águeda is a small town, so when you need to get around, you can use your bike or take the opportunity to walk.

40°34'29.0"N 8°28'37.3"W



- UNAVE – Association for Professional Training and Research; Entrepreneurship Center at the University of Aveiro; G&C Campi
- cont&UA – Center for lifelong learning of University of Aveiro; Kindergarten and ECA
- Department of Languages and Cultures
- Building B: Former Rectors' Offices; CESAM – Centre for Environmental and Marine Studies; Confucius Institute; TEMA – Mechanical Technology and Automation; CIOCCO – Aveiro Institute of Materials
- Department of Electronics, Telecommunications and Informatics
- Department of Education and Psychology; Media Library; UACOOPERA – Collaboration with Society Unit
- Social Services; Santiago Cafeteria; Parapharmacy; Stationery; Snack Bar; AAUAV Service Station and Shop; Post Office; ATM's; Notice; Helpdesk – STIC
- Department of Environment and Planning
- Department of Biology
- Department of Materials and Ceramic Engineering
- Department of Economics, Management, Industrial Engineering and Tourism
- Mathematics Department
- Department of Social, Political and Territorial Sciences
- Department of Physics
- Central Laboratory of Analysis
- Department of Chemistry
- Department of Geosciences
- Library; Documentary Information and Museology; História de Recursos Exhibition Room
- IT – Telecommunications Institute
- ESTGA – Águeda School of Technology and Management
- Department of Communication and Art
- Department of Mechanical Engineering
- Pedagogical, Scientific and Technological Complex
- EETA – Institute of Electronic Engineering and Informatics of Aveiro
- Central and Rectorate Building; Rectorate; Administration; Communication, Image and public relations services; Academic Management Services; Financial Resources Management Services; Human Resource Management Services; Technical Management Services
- Department of Biology; Herbarium and Teaching Laboratories
- Information and Communication Technologies Services
- Department of Civil Engineering
- Technology Laboratory Complex
- Health Building; ESSUA – School of Health Sciences of Universidade de Aveiro; Department of Medical Sciences; University Health Center
- Fábrica Centro Ciência Viva

- CICFANO – Interdisciplinary Complex of Physical Sciences Applied to Nanotechnology and Oceanography
- Optical Communications, Radio Communications and Robotics Building
- ESAN – Aveiro Norte School of Design, Management and Production Technologies
- ISCA – Aveiro Institute of Accounting and Administration
- ECOMARE – Laboratory for Innovation and Sustainability of Marine Resources
- CESAM – Centre for Environmental and Marine Studies
- CCCI – Communication and Image Sciences Complex
- Changing rooms and synthetic football field
- PTNMR – Portuguese Nuclear Magnetic Resonance Network
- Center for Advanced Computing and Artificial Intelligence (CCAIA)
- Caixa UA Multipurpose Building
- Prof. Anísio Hall Sport Pavilion
- Alameda
- Student Residences
- Faculty, Staff and Graduate Student Residence
- IDAD – Institute for Environment and Development
- Cross-country track
- Campi Grethetics; University restaurant
- Nursery and Kindergarten
- Arboretum
- GRETUA – Experimental Theatre Group of UAvéiro
- Water tower
- Athletics track
- Pedestrian bridge
- Crasto Cafeteria Complex
- Student House; AAUAv Headquarters – Academic Association of UAvéiro
- Meteorological Station
- Bookstore; Mestre Helder Castanheira Exhibition Room
- Science Garden
- Santiago da Fonte Marina
- Casqueira Marina
- Open Access Parking Lot
- Restricted Access Parking Lot
- Paid Parking Lot