

2nd International Conference on Math Education and Technology 2024 (ICMET 2024)

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

June 19, 2024

9h00 - 9h30	RECEPTION		Room: Entrance of DEP
9h30 - 10h00	OPENING CEREMONY		Room: 5.3.27
10h00 - 11h00	<i>Plenary Talk</i> Computational Thinking vs Artificial Intelligence in Mathematics Teaching <i>Jaime Carvalho e Silva</i>		Room: 5.3.27
11h00 - 11h30	COFFEE BREAK & POSTER SESSION		
		Room 5.3.27	Room 5.2.50
11h30 - 11h50	Contributions to in-service primary teachers' education from their engagement in mathematics landscapes of investigation <i>Guilherme Henrique Gomes da Silva; João Pedro da Ponte</i>	History of science as a catalyst for science education: the Geophysical and Astronomical Observatory of the University of Coimbra's legacy in teaching physical-mathematical sciences through a Non-Degree Course at the University of Coimbra <i>Fernando B. Figueiredo; Jaime C Silva</i>	
11h50 - 12h10	Educational robotics and mathematics in initial teacher training <i>Ricardo Jorge Pratas Silva; Fernando Martins; Cecília Costa</i>	Systematic literature review: limitations and difficulties of the STEAM approach <i>Patrícia Bértolo Teixeira; Helena Rocha; Cristina Martins</i>	
12h10 - 12h30	Plane Geometry Activities Explored with GeoGebra Discovery in Elementary School <i>Celina Aparecida Almeida Pereira Abar; Alexandre Matias Russo</i>	Structural network analysis tools and their use in educational research <i>João S. Carvalho Sousa; Cristina Martins; Patrícia Bértolo Teixeira</i>	
12h30 - 14h00	LUNCH		
		Room 5.3.27	Room 5.2.50
14h00 - 14h20	A proposal of training cycles for Critical Mathematics Education to prospective mathematics teachers <i>Guilherme Henrique Gomes da Silva; Maria Flávia Santiago Maciel</i>	Utilizing ChatGPT Calculation Errors to Encourage Students in Adopting New Exploration Tools for Self-Learning and Excelling in Mathematics <i>Philip Slobodsky; Anatoli Kouropatov; Mariana Durcheva</i>	
14h20 - 14h40	Representational fluency of mathematics teachers and the integration of different technologies <i>Maria C Botelho; Helena Rocha</i>	The use of generative AI for the enhancement of critical thinking in the mathematical work of university students: a practical experience <i>Piedad Tolmos; M. Pilar M.P. Vélez</i>	
14h40 - 15h00	Mathematics concepts of basic education teachers and their approach in a training workshop. A case in Campeche, Mexico <i>Luz A. Carrillo</i>	The engineering design cycle in problem solving and in collective creativity <i>Isabel Piteira Vale; Ana Barbosa</i>	
15h00 - 15h20	Mathematical knowledge for teaching mathematics of future primary school teachers in the topic of Numbers and Operations: a systematic review of the literature <i>André António José Joaquim; Ana Paula AP Aires; Paula Maria Machado Cruz Catarino; Ana Gonçalves</i>	The conceptual and curricular challenges of Mathematics in the 1st Cycle of Basic Education <i>Jéssica Carvalho; Beatriz Cunha; Maria Inês Gonçalves; Dárida Fernandes</i>	

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15h20 - 15h40	Automatic feedback in the context of games <i>Celina Aparecida Almeida Pereira Abar; Thiago Novaes Silva</i>	From string art to 3D printing via mathematical models <i>Thierry N. Dana-Picard; Eva Ulbrich; Zoltan Kovacs; Zsolt Lavicza</i>
15h40 - 16h10	DRINKS & POSTER SESSION	
	Room 5.1.46	Room 5.2.50
16h10 – 17h10	<i>Workshop</i> Cooperative learning in mathematics: theoretical foundations and practice <i>Luz A. Carrillo</i>	<i>Workshop</i> Workshop STEM Bees <i>Bento Cavadas; Neusa Branco</i>
	Room 5.1.46	Room 5.2.50
17h10 – 18h10	<i>Workshop</i> Exploring orders of covariational reasoning in digital environments <i>Sara Bagossi; Osama Swidan</i>	<i>Workshop</i> Exploring the environment with GeoGebra Discovery <i>Belén Ariño-Morera; Tomas Jesus Recio; Piedad Tolmos</i>
18h10 - 19h10	WELCOME RECEPTION	

June 20, 2024

10h00 - 11h00	<i>Plenary Talk</i> Using digital technology for teaching and learning mathematics: is it or will it be a revolution? <i>Gilles Aldon</i>	Room: 5.3.27
11h00 - 11h30	COFFEE BREAK & POSTER SESSION	
	Room 5.3.27	Room 5.2.50
11h30 - 11h50	Inquiry-based Learning using 3D Printing and GeoGebra AR <i>Angelika Schmid</i>	Co-creation of educational prototypes within a Community of Interest: a case study from the TransEET project <i>Sara Bagossi; Andrea Gherzi; Ornella Robutti; Myrto Karavakou; Anders Bouwer</i>
11h50 - 12h10	Knowledge to teach mathematics with technology: the global model <i>Helena Rocha</i>	Modular SIACUA 2024: Interactive Computer Learning System of the University of Aveiro <i>Luís AA Descalço; Paula Carvalho</i>
12h10 - 12h30	Embracing AI: Insights and Successes from an International School in Southeast Asia <i>Emanuel Santos</i>	Don't be offside in mathematics! <i>Helder Pinto; Alcina M Figueiroa; Ângelo Silva; Celestino Magalhães</i>
12h30 - 12h50	Exploring Pre-service Mathematics Teachers' Perceptions of Generative AI in Mathematics Education: A Pilot Study <i>Roberto Capone; Eleonora Faggiano; Helena Rocha; Maria Lucia Bernardi</i>	Discovering permutations: A qualitative research study with 6th graders taught using the Hejný Method <i>Esperanza López Centella</i>

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12h50 - 15h00	LUNCH
15h – 16h	<i>Plenary Talk</i> Embracing Generative AI in Higher Ed: A Paradigm Shift <i>Nancy Nelson</i> Room: 5.3.27
16h30 - 19h00	SOCIAL PROGRAMME
20h00	GALA DINNER

June 21, 2024

	Room 5.1.46	Room 5.2.50
10h00 - 11h00	<i>Workshop</i> Computing and drawing with ancient geometric machines <i>Alvaro A. Martínez-Sevilla; Sergio Alonso</i>	<i>Workshop</i> STEAM education: from multi-disciplinary to trans-disciplinary approach <i>Livia Silvestri; Gabriella Pocalana</i>
11h00 - 11h30	COFFEE BREAK & POSTER SESSION	
11h30 - 12h30	<i>Plenary Talk</i> Unraveling the Threads: Exploring the Life and the Works of Fibonacci and Its Implications for Math Education <i>Marc Moyon</i> Room: 5.3.27	
12h30 - 14h00	LUNCH	
	Room 5.1.46	Room 5.2.50
14h00 - 15h00	<i>Workshop</i> Prototypes with Transformative Technologies for STEAM Education <i>Mosè Colangelo; Ornella Robutti; Yang Yang; Myrto Karavakou; Andrea Gherzi; Sara Bagossi</i>	<i>Workshop</i> How to prepare questions with different levels and weights of cognitive complexity in student assessment? <i>Cristina M.R. Caridade; Veronica Pereira; José Alexandre Martins</i>
	Room 5.3.27	Room 5.2.50
15h00 - 15h20	Formative assessment by engineering students to enhance the learning process <i>Maria Teresa Torres Monteiro</i>	What is the level of happiness of our students? Case study in 3 higher education institutions <i>Cristina M.R. Caridade; Veronica Pereira; José Alexandre Martins</i>
15h20 - 15h40	Mathematics teacher education in a computer-based environment: joint labour using Moodle Quick Chat plugin <i>Umberto Dello Iacono; George Santi</i>	PyGgb – A Web-App for combining GeoGebra and Python <i>Michael Borchers; Florian Derflinger; Zoltan Kovacs; Ben North</i>
15h40 – 16h00	The graphic calculator in promoting didactic knowledge of a prospective teacher in the teaching of functions <i>Florian AV Viseu; Ana Paula AP Aires; Sara Cruz</i>	Sixth graders discovering permutations: A qualitative research study with students taught using the Hejný Method <i>Esperanza López Centella</i>

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16h00 - 16h30	COFFEE BREAK & POSTER SESSION	
	Room 5.3.27	Room 5.2.50
16h30 - 16h50	Didactic sequence using GeoGebra Classroom to support the learning of Statistics by Portuguese Secondary School students. <i>Carolina Ferreira Martins; Vanda Santos; Daniela Pedrosa</i>	MaTice Project: interdisciplinarity with project work <i>Cristina Martins; Ana Claudia Loureiro</i>
16h50 - 17h10	The impact of assessment methodologies on academic success: a longitudinal study in mathematics in business science courses * <i>Carla Martinho; Jaime C Silva</i>	ProAffective Mathematics with Robotics for Preservice Teachers <i>Jorge Albella; Teresa F. Blanco; Antía Fernández-López</i>
17h10 - 17h30	CLOSING CERIMONY	

Legend:

	Online
	Presential

POSTER SESSION

Math Trails with MathCityMaps and EduCity: an experience <i>Alvaro Nolla; Piedad Tolmos</i>
Using Chess with 4th grade students <i>Edith Debrenti</i>
University students' logical thinking in the light of success and perceived difficulty <i>Andrea Bordás; Edith Debrenti</i>
OpenUS4ALL: an educational innovation project in STEAM based on optimizing Learning through Universal Design and Open Pedagogy <i>Carmen Perea; Rosa Martínez; Antonio Andreu; Belén Pérez-Sanche</i>
Digital Portfolios to promote self and co-regulation learning <i>Patricia Resende; Daniela Pedrosa; Vanda Santos</i>
Students' use of graphing calculators: Reflecting on two studies 20 years apart <i>Rosa A Ferreira; Francisca Figueiredo</i>
Computational Thinking in the Classroom - Practices of Elementary Mathematics Teachers <i>Cristina Marcela M Seabra; António Domingos; Manuel Vara Pires</i>

*** to be confirmed**