

# 1st International Conference on Math Education and Technology 2023 (ICMET 2023)

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

**October 2, 2023**

**Room: Sala de Atos Académicos (Rectory Building)**

9h00 - 9h30	<b>RECEPTION</b>
9h30 - 10h00	<b>OPENING CEREMONY</b>
10h00 - 11h00	<i>Plenary Talk</i> <b>AN APPROACH TO INTEGRATING DYNAMIC GEOMETRY SOFTWARE INTO MATHEMATICS TEACHING AND LEARNING</b> <i>Ana Breda</i>
11h00 - 11h30	<b>COFFEE BREAK &amp; POSTER SESSION</b>
11h30 - 11h45	<b>TEACHING INTRIGUING GEOMETRIC LOCI WITH GEOGEBRA DISCOVERY</b> <i>Piedad Tolmos; Tomás Jesus Recio; Belén Ariño</i>
11h45 - 12h00	<b>POSSIBILITIES OF USAGE OF INQUIRY-BASED LEARNING IN STE(A)M EDUCATION</b> <i>Ján Guncaga; Maria Fuchsová; Vaclav Sykora</i>
12h00 - 12h15	<b>CREATIVITY FOR ALL: THE POWER OF MULTIPLE (RE)SOLUTION PROBLEMS</b> <i>Isabel Piteira Vale; Ana Barbosa</i>
12h15 - 12h30	<b>DEVELOPMENT OF TPACK IN AN ENVIRONMENT OF CONTINUOUS TEACHER TRAINING IN MATHEMATICS TEACHING USING GEOGEBRA</b> <i>Pedro F. Pimenta; António Domingos; Cristina Costa</i>
12h30 - 14h30	<b>LUNCH</b>
14h30 - 14h45	<b>MINIMIZING ACADEMIC DROPOUT AND MAXIMIZING SUCCESS RATES THROUGH COLLABORATIVE WORK AND MOODLE FORUMS: A CASE STUDY IN MATHEMATICS IN HIGHER EDUCATION</b> <i>Carla Martinho; Jaime C. Silva</i>
14h45 - 15h00	<b>USING GEOGEBRA DISCOVERY IN THE CONTEXT OF PLANE GEOMETRY</b> <i>Celina A.A.P. Abar; Daniel Mendes</i>
15h00 - 15h15	<b>FACTORS THAT INFLUENCE ENGINEERING STUDENTS' MOTIVATION TO STUDY MATHEMATICS</b> <i>Timo Tossavainen; Evgeniya Burtseva</i>
15h15 - 15h30	<b>EVALUATION WITH DIDACTIC TECHNOLOGIES IN THE CLASSROOM ENVIRONMENT</b> <i>Cristina M.R. Caridade</i>
15h30 - 15h45	<b>CONTRIBUTION OF DIGITAL REFLECTIVE PORTFOLIO IN INITIAL TRAINING FOR FORMATIVE ASSESSMENT AND DEEPENING THE MATHEMATICAL KNOWLEDGE OF FUTURE TEACHERS</b> <i>Ana Cláudia Henriques</i>
15h45 - 16h00	<b>WHY ARE SO MANY MATHEMATICS TEACHERS NOT USING INTERACTIVE RESOURCES?</b> <i>Douglas E. Butler</i>
16h00 - 16h15	<b>* IMPLEMENTING A NEW EDUCATIONAL MATHEMATICS GAME TSFS AS A KEY STRATEGY IN LEARNING MATHEMATICS FOR MIDDLE SCHOOL STUDENTS IN QATAR</b> <i>Naccache Hiba</i>
16h15 - 16h45	<b>COFFEE BREAK &amp; POSTER SESSION</b>
16h45 - 17h45	<i>Workshop</i> <b>FOSTERING ENGAGED LEARNING COMMUNITIES IN THE ASYNCHRONISH CLASSROOM: LEVERAGING AGILE COLLABORATION THROUGH SLACK</b> <i>Dennis J DeBay</i>
17h45 - 18h15	<b>WELCOME RECEPTION</b>

**\* to be confirmed**

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**October 3, 2023**

**Room: Sala de Atos Académicos (Rectory Building)**

10h00 - 11h00	<i>Plenary Talk</i> <b>INSPIRING CREATIVE, INNOVATIVE, AND COMPUTATIONAL THINKING IN STEM THROUGH TECHNOLOGY</b> <i>Wei-Chi Yang</i>
11h00 - 11h30	<b>COFFEE BREAK &amp; POSTER SESSION</b>
11h30 - 12h30	<i>Plenary Talk</i> <b>DANCING ALONG TO DECIMALS OF RATIONAL NUMBERS</b> <i>Andreia Hall</i>
12h30 - 14h30	<b>LUNCH</b>
14h30 - 18h	<b>SOCIAL PROGRAMME</b>
19h30	<b>GALA DINNER</b>

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October 4, 2023

**Room:** Anf. 5.3.27 (Department of Education and Psychology Building)

10h00 - 10h15	<b>STEM ON INITIAL TEACHER EDUCATION: A DELIVERING CHALLENGE</b> <i>Neusa Branco; Bento Cavadas</i>
10h15 - 10h30	<b>DIFFICULTIES EXPERIENCED BY 6TH-GRADE STUDENTS IN MATHS TASKS BASED ON EXPLORATORY TEACHING</b> <i>Dina Santos Tavares; Alexandra Mendes; Ana M. Oliveira; Hugo Menino</i>
10h30 - 10h45	<b>MATHEMATICAL TRAILS WITH MATHCITYMAP AND GEOGEBRA DISCOVERY</b> <i>Belen Ariño Morera; Angélica Martínez-Zarzuelo; Tomás Jesus Recio</i>
10h45 - 11h00	<b>THE HISTORY OF MATHEMATICS IN THE LIGHT OF ARTIFICIAL INTELLIGENCE: SOME OBSERVATIONS FOR CLASSROOM WORK</b> <i>José Alexandre Martins; Eugenio Diaz-Barriga</i>
11h00 - 11h30	<b>COFFEE BREAK &amp; POSTER SESSION</b>
11h30 - 12h30	<i>Plenary Talk</i> <b>LOOKING FOR INTERESTING THEOREMS IN GEOMETRY</b> <i>Tomás Recio</i>
12h30 - 14h30	<b>LUNCH</b>
14h30 - 14h45	<b>FROM THE STEAM ENGINE TO STEAM EDUCATION: AN EXPERIENCE WITH PRE-SERVICE MATHEMATICS TEACHERS</b> <i>Angel C.Herrero; Tomás Jesus Recio; Piedad Tolmos; M. Pilar M.P. Vélez</i>
14h45 - 15h00	<b>SOLO TAXONOMY: IS IT POSSIBLE TO MEASURE THE COGNITIVE DEGREE/DIFFICULTY OF THE EXAM?</b> <i>Cristina M.R. Caridade; Verónica Pereira</i>
15h00 - 15h15	<b>EMPLOYING ART IN THE STEAM METHODOLOGY TO ENHANCE MOTIVATION IN TEACHING GEOMETRY TO PROSPECTIVE EDUCATORS</b> <i>Lilla Korenova; Angelika Schmid; Minju Jeong</i>
15h15 - 15h30	<b>A CONTINUUM SPACE IS THE INFINITELY GREAT</b> <i>Qing Li</i>
15h30 - 15h45	<b>EXPLORING THE RICH HISTORY OF JAPANESE MATHEMATICS (WASAN) IN THE MATHEMATICS CLASSROOM</b> <i>Vanda Santos; Jaime C. Silva</i>
15h45 - 16h00	<b>CALCULUS: EXPLORING THE WORLD OF OPEN MIDDLE PROBLEMS AND GEOGEBRA</b> <i>Nuno Bastos</i>
16h00 - 16h15	<b>COFFEE BREAK &amp; POSTER SESSION</b>
16h15 - 16h30	<b>LEARNING PROBLEMS IN MATHEMATICS IN SECONDARY EDUCATION: THE CONTRIBUTION OF AN ACTION RESEARCH PROJECT</b> <i>Israel Cardoso; Vanda Santos; Piedade Vaz; Graça Bidarra</i>
16h30 - 16h45	<b>THE LEVELS OF COGNITIVE DEMAND PROPOSED BY STEIN AND THEIR IMPACTS ON MATHEMATICS TEACHING IN HIGH SCHOOL IN THE STATE OF AMAZONAS-BRAZIL</b> <i>Aldemir Malveira Oliveira; Maria Piedade Vaz Rebelo; Maria da Graça Bidarra</i>
16h45 - 17h00	<b>CLOSING CERIMONY</b>

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## POSTER SESSION

	<b>A GEOMETRIC EXPLORATION OF MONUMENTS IN THE CITY OF AVEIRO</b> <i>Teresa B. Neto; Alvaro Nolla; Margarida M. Marques; Lucia Pombo</i>
	<b>DESIGNING ACTIVITY OF EXPLORATORY DATA ANALYSIS THROUGH RSTUDIO: AN EVALUATION A POSTERIORI</b> <i>Carlotta Vielmo</i>
	<b>SOLVING AUTHENTIC PROBLEMS THROUGH ENGINEERING DESIGN: A STEAM APPROACH</b> <i>Isabel Piteira Vale; Ana Barbosa</i>
	<b>ON SOME INTERPOLATION OPERATORS ON TRIANGLES WITH CURVED SIDES</b> <i>Teodora Cantinas</i>