Wednesday 7 June, 2023 – NKUA Central Building					
16:00 - 17:00	Registrations				
17:00 - 18:30	Opening Ceremony - "Ioannis Drakopoulos" Amphitheatre Chair: Hans-Georg Weigand				
	Keynotes 1/"Ioannis Drakopoulos" Amphitheatre				
18:30 - 19:30	<u>Nathalie Sinclair</u> , Simon Fra	Nathalie Sinclair, Simon Fraser University: Aesthetising mathematics education research Chair: Chronis Kynigos (NKUA)			
		Posters, Demos & Reception	n*		
19:30-21:00	A DIDACTIC PROPOSAL FOR TEACHING MATHEMATICS TO PRIMARY SCHOOL CHILDREN Eleni Tsami, Dimitra Kouloumpou, Andreas Rokopanos, Dimitrios Anastasopoulos	USABILITY OF 3D MODELLING AND PRINTING TO LEARNING MATHEMATICS IN A PRIMARY SCHOOL INCLUSIVE CLASSROOM Branko Anđić, Eva Ulbrich, Mathias Tejera, Andrea Mate- Klatyik, Zsolt Lavicza	A FRAMEWORK BASED ON ECOLOGICAL THEORY OF ANALYSING SPATIAL LEARNING IN AUGMENTED REALITY GEOMETRY Yang Yang, Manolis Mavrikis, Eirini Geraniou		
	CHARACTERIZING TOUCHSCREEN ACTIONS FOR ACTION-BASED EMBODIED LEARNING IN K-12 MATHEMATICS INSTRUCTION Wing-Leung Yeung, Oi-Lam Ng	GEOGEBRA CODING - BRIDGING INTERACTIVE GEOMETRY AND VISUAL PROGRAMMING Sokratis Karkalas, Filothei Chalvatza, Manolis Mavrikis	HONG KONG ETHNIC MINORITY STUDENTS' MULTIMODAL DISCOURSE ABOUT TRIANGLES IN DYNAMIC GEOMETRY ENVIRONMENTS Oi-Lam Ng, Allen Leung, Huiyan Ye		
	INSTRUMENTAL GENESIS OF CHATGPT IN A CHALLENGE-BASED COURSE INVOLVING MATHEMATICS Zeger-jan Kock, Ulises Salinas- Hernández, Birgit Pepin	MaLT2: A DIGITAL EXPRESSIVE MEDIUM FOR STUDENTS' AND TEACHERS' MATHEMATICAL ACTIVITY Konstantinos Gavrinas	COMMUNITIES OF LEARNING AND PRACTICE IN MATHEMATICS TEACHER		
	PRODUCTIVE USE OF GENERATIVE AI LANGUAGE MODELS FOR MATHEMATICS TEACHING Nils Buchholtz, Lukas Baumanns, Judith Huget, Franziska Peters, Maximilian Pohl, Sebastian Schorcht	RECOGNISING MACRO-SPACES USING GOOGLE MAPS: A STUDY WITH EIGHT-YEAR OLD CHILDREN Yudi Andrea Ortiz-Rocha, Ana Isabel Sacristán, Ivonne Sandoval- Cáceres	PROFESSIONAL DEVELOPMENT IN THE USE OF ICT: THE CASE OF MATHEMATICS Charalampos Zagouras, Dimitra Egarchou, Chronis Kynigos, Dimitris Diamantidis, Christos Malliaris		
	SAMR MODEL FOR 3D PRINTING AND AUGMENTED REALITY Antía Fernández López, Teresa Fernández Blanco	TECHNICAL ADVANCES AND DIDACTIC REASONING IN THE PROJECT AuthOMath Guido Pinkernell, Gunter Ehret, Jose Manuel Diego Mantecón, Angel Ríos San Nicolas, Chris Sangwin, George Kinnear, Zsolt Lavicza	SKILLSPRINT: GAMIFYING MATHEMATICS REPETITION Magnus Lauritzen Holtet, Anh-Kha Nguyen Vo, Sofia Papavlasopoulou		
	THE BUTTERFLY PROJECT: MAKING SENSE OF FUNCTIONS THROUGH INTERPOLATION Romain Gourvil	ONLINE COLLABORATION – FOR WHO? Liv Sofie Nøhr	THE ROLE OF ChatGPT IN MATHEMATICS INQUIRY-BASED LESSONS: A STUDY IN BRAZIL Jonei Cerqueira Barbosa		

^{*} During the next days of the Conference the posters will be on display in the "Poster Room" on the 1st floor / Marasleio Didaskalio

Thursday 8 June, 2023 – Maraslion Didaskalion				
Workshop Sessions				
	(The underlined author is also the chair of the workshop session)			
9:00 - 10:30	Workshop Session 2.1 Room 1	Scott Courtney	GAPMINDER – DIGITAL TOOLS THAT SUPPORT A FACT-BASED WORLDVIEW TO CONFRONT SOCIETAL CHALLENGES AND MISCONCEPTIONS	
	Workshop Session 2.2 Room 2	Rebecca Samantha Stäter, Sina Wetzel, Matthias Ludwig	TEACHING COMPUTATIONAL THINKING: A LOW-THRESHOLD APPROACH USING COLETTE	
	Workshop Session 2.3 Room 3	Katrin Gruhn, Carina Tusche, Laura Graewert, Raja Herold- Blasius, Daniel Thurm	CREATING DIGITAL ESCAPE GAMES FOR MATHEMATICS EDUCATION	
	Workshop Session 2.4 Room 4	Chronis Kynigos Dimitris Diamantidis, Vaggelis Fakoudis	MATHEMATICS IN THE DIGITAL SCHOOL INFRASTRUCTURE (MINISTRY OF EDUCATION - CTI DIOPHANTUS)	
10:30 - 11:00		Coffee Break		
		Keynotes 2/Amfitheatre Maraslid	on Didaskalion	
11:00 - 12:00	Osama Swindan, Ben Gurion University of the Negev: Augmented reality: just a big name or a technology that really does promote mathematical thinking? Chair: Alison Clark-Wilson (University College London)			
12:00 – 13:00		Light Lunch		
		Research Reports		
	Research Reports 2.1.1	Christian Bokhove	HELP-SEEKING IN AN ONLINE MATHS ENVIRONMENT: A SEQUENCE ANALUSIS OF LOG-FILES	
	"Analytics & AI" Room 1	Camilla Spagnolo, Giorgio Bolondi, Alessandro Gambini	SOLVING A PROBLEM WITH AI: CONSIDERATIONS ON TEACHING AND LEARNING MATHEMATICS	
	Chair: Marcelo Milrad	<u>Dorota Mozyrska</u>	E-COACHING METHODOLOGY IN TEACHING LINEAR ALGEBRA AND CALCULUS	
	Research Reports			
	2.1.2 "Communication	<u>Katharina Kirsten</u> , Gilbert Greefrath	INTEREST AND SELF-EFFICACY IN DISTANCE LEARNING - A COMPARISON OF SYNCHRONOUS DISTANCE AND ON-CAMPUS TUTORIALS	
13:00 – 14:30	2.1.2		LEARNING - A COMPARISON OF SYNCHRONOUS DISTANCE AND ON-CAMPUS	
13:00 – 14:30	2.1.2 "Communication in distance education" Room 2 Chair: Ana Isabel Sacristán Research Reports 2.1.3	Greefrath <u>Amanda Thomas</u> , Nathaniel	LEARNING - A COMPARISON OF SYNCHRONOUS DISTANCE AND ON-CAMPUS TUTORIALS CONCEPTUALIZING NEW IMPERATIVES FOR TECHNOLOGY: TEACHING ELEMENTARY	
13:00 – 14:30	2.1.2 "Communication in distance education" Room 2 Chair: Ana Isabel Sacristán Research Reports	Amanda Thomas, Nathaniel Largo	LEARNING - A COMPARISON OF SYNCHRONOUS DISTANCE AND ON-CAMPUS TUTORIALS CONCEPTUALIZING NEW IMPERATIVES FOR TECHNOLOGY: TEACHING ELEMENTARY MATHEMATICS IN A VUCA WORLD ABSTRACTION OF MOTION IN PATTERNS ENHANCE ALGEBRAIC GENERALIZATION IN	
13:00 - 14:30 14:30 - 15:00	2.1.2 "Communication in distance education" Room 2 Chair: Ana Isabel Sacristán Research Reports 2.1.3 "Classroom Mathematical	Amanda Thomas, Nathaniel Largo Angela Zoupa, Giorgos Psycharis Sara Bagossi, Osama Swidan,	LEARNING - A COMPARISON OF SYNCHRONOUS DISTANCE AND ON-CAMPUS TUTORIALS CONCEPTUALIZING NEW IMPERATIVES FOR TECHNOLOGY: TEACHING ELEMENTARY MATHEMATICS IN A VUCA WORLD ABSTRACTION OF MOTION IN PATTERNS ENHANCE ALGEBRAIC GENERALIZATION IN MATHEMATICS CLASSROOMS FEELING THE SLOPE: LEARNING THE DERIVATIVE CONCEPT WITH AUGMENTED	

	Research Reports			
	Research Reports 2.2.1	Annalisa Cusi, Sara Gagliani Caputo	DESIGN OF DIGITAL ENVIRONMENTS AIMED AT FOSTERING ASYNCHRONOUS WORKING GROUP ACTIVITIES: EMERGING CATEGORIES OF STUDENTS' COLLABORATIVE PROCESSES	
	"Transformational designs and tools" Room 1 Chair: Nathalie Sinclair	Myrto Karavakou, Chronis Kynigos	SINE, YOU THINK, IT CAN DANCE? AN AESTHETICALLY DRIVEN MATHEMATICAL ACTIVITY FOR MEANING MAKING ON TRIGONOMETRIC FUNCTIONS	
		Marianthi Grizioti, <u>Maria-Stella</u> <u>Nikolaou</u>	ENHANCING STUDENTS' 21ST CENTURY SKILLS THROUGH PLAYING AND MODIFYING EMBODIED DIGITAL CLASSIFICATION GAMES	
	Research Reports 2.2.2 "3D printing in Mathematics Education" Room 2 Chair: Osama Swidan	Antonietta Esposito, Francesco Saverio Tortoriello	THE 3D PRINTER IN KINDERGARTEN EDUCATIONAL ACTIVITIES	
15:00 – 16:30		Maria Mavri, Evgenia Fronimaki, Patricia Ikouta Mazza, Dimitris Papandreou, Maria Koltsaki	EXPLORING THE POTENTIAL OF 3D PRINTING AT MATHEMATICAL LITTERACY	
		Annamaria Miranda	EXPLORING THE ROLE OF 3D PRINTING TECHNOLOGY IN SUPPORTING UNDERGRADUATE STUDENTS' TOPOLOGICAL CONCEPTUAL KNOWLEDGE	
	Research Reports 2.2.3 "Computational Thinking" Room 3 Chair: Marios Pittalis	Paolo Musmarra, <u>Maria &</u> <u>Rosaria Del Sorbo</u>	LEARNING GEOMETRY USING COMPUTATIONAL THINKING, SCRATCH AND PYTHON TURTLE	
		Emil Bøgh Løkkegaard, <u>Liv Sofie</u> <u>Nøhr</u> , Eirini Geraniou, Andreas Lindenskov Tamborg, Morten Misfeldt	PROGRAMMING AND COMPUTATIONAL THINKING IN MATHEMATICAL SUBJECT AREAS	
		Abolfazl Rafiepour, Mohammad Radmehr	THE IMPACT OF TEACHING SCRATCH ON GROWTH OF COMPUTATIONAL THINKING OF 7TH GRADE STUDENTS	
	Research Reports			
	Research Reports 2.3.1 "Designs and tools for classroom practice" Room 1 Chair: Melih Turgut	<u>Katia Schiza</u>	TINKERING WITH ANIMATED MODELS OF LETTERS: INSIGHTS IN THE USE OF VARIABLE	
16:40 – 18:10		Melih Turgut, Iveta Kohanová, Jørn Ove Asklund, Solveig Voktor Svinvik	INTERNAL RECORD AS A CATALYST: FOURTH GRADERS' PROBLEM-SOLVING PRACTICES WITH PROGRAMMING ROBOT EMIL	
		<u>Yee Man Chan</u> , Oi-Lam Ng	MATHEMATICAL LITERACY DEMONSTRATED IN PROGRAMMING-BASED MATHEMATICAL PROBLEM SOLVING: THE CASE OF COMPOUND INTEREST	
	Research Reports 2.3.2 "Students' activities support" Room 2	<u>Carina Tusche</u> , Daniel Thurm, Shail Olsher	HOW COMBINING SELF-ASSESSMENT AND AUTOMATIC ASSESSMENT MIGHT HELP TO SUPPORT STUDENT ENGAGEMENT	
		Annalisa Cusi, <u>Agnese Ilaria</u> <u>Telloni</u>	EXPLORING STUDENTS' PERSPECTIVES ON THE SUPPORT PROVIDED BY DIGITAL META- SCAFFOLDING	
	Chair: Christian Bokhove	<u>Laura Graewert</u> , Daniel Thurm, Stephan Hußmann, Bärbel Barzel	DIGITAL FORMATIVE SELF-ASSESSMENT	
16:40 – 18:10	Research Reports 2.3.3	Roberto Capone, <u>Mario Lepore</u>	A PROPOSAL OF MIXED METHOD ANALYSIS IN MATHEMATICS EDUCATION USING FUZZY COGNITIVE MAP	
	"Methodological approaches" Room 3	Nektaria Panagi-Louka, Demetra Pitta-Pantazi, Constantinos Christou	ICT IN MATHEMATICS ACHIEVEMENT: EVIDENCE FROM ETIMSS 2019	

ICTMT 16 – CONFERENCE AGENDA 7-10/6/2023

Chair: Giorgos Psycharis	Sina Wetzel, Matthias Ludwig	ROLE OF INTERACTIVE TASKS AND COMPREHENSION-ORIENTED DESIGN IN INSTRUCTIONAL VIDEOS: RESULTS OF A PILOT STUDY	
	Research Reports 2.3.4 "Tools for	Ulises Salinas-Hernández, Zeger- jan Kock, Birgit Pepin, Alessandro Gabbana, Federico Toschi, Jasmina Lazendic-Galloway	USING DIGITAL CURRICULUM RESOURCES IN CHALLENGE-BASED EDUCATION: A CASE STUDY WITH APPLIED MATHEMATICS AND PHYSICS STUDENTS
Teachers Designs" Room 4 Chair: Eleonora Faggiano	<u>Dimitris Diamantidis</u>	THE USE OF FOCUSED AUTHORING DIGITAL TOOLS FOR LEARNING MATHEMATICS IN TASK DESIGN	
	<u>Panagiota Argyri</u> , Zacharoula Smyrnaiou	THE EDUCATIONAL GAME CHOICO AS DIGITAL LEARNING ENVIRONMENT FOR SUPPORTING STRATEGIES FOR CAREERS DECISION MAKING PROCESS	

Friday 9 June, 2023 – Maraslion Didaskalion			
	Workshop Sessions		
	•	erlined author is also the chair of t I	
	Workshop Session 3.1 Room 1	Anica Eumann, <u>Bärbel Barzel</u>	IMPLEMENTING FORMATIVE ASSESSMENT STRATEGIES IN EVEREYDAY MATHEMATICS EDUCATION WITH AN UNDERSTANDING-ORIENTATED DIGITAL DIAGNOSTIC TOOL
9:00 - 10:30	Workshop Session 3.2 Room 2	Mathias Tejera	3D PRINTING AND MODELING FOR MATHEMATICS EDUCATION: FROM THEORY TO PRACTICE
	Workshop Session 3.3 Room 3	Guido Pinkernell	TECHNICAL ADVANCES INITIATING DIDACTIC REFLECTION IN TEACHER EDUCATION
	Workshop Session 3.4 Room 4	<u>Chronis Kynigos,</u> Maria-Stella Nikolaou	CONSTRUCTIONIST AUTHORING SYSTEMS (EDUCATIONAL TECHNOLOGY LAB, E.D.S., PH.S., N.K.U.A.)
10:30 - 11:00		Coffee Break	
	Keynotes 3.1 / Amfitheatre Maraslion Didaskalion		
11:00 - 12:30	Nicholas Jackiw, Simon Fraser University. Chronis Kynigos, National Kapodistrian University of Athens. and others to be announced Chair: Alison Clark-Wilson (University College London) Designing digital environments in the context of mathematics education. A Panel Discussion		
12:30 – 13:30	Light Lunch		
	Research Reports		
	Research Reports 3.1 "Connections to curriculum" Room 1	Eleonora Faggiano, <u>Federica</u> <u>Mennuni</u>	STUDENTS' MEANING-MAKING PROCESSES IN THE DIGITAL ERA: HOW CAN THE TEACHER FOSTER MATHEMATICAL DISCOURSE?
13:30 – 15:00		Eleonora Faggiano, Ana Isabel Sacristán, Helena Rocha, Marisol Santacruz-Rodríguez	A CROSS-NATIONAL COMPARISON ON HOW THE CONGRUENCE AND SIMILARITY OF FIGURES IS ADDRESSED WITH TECHNOLOGY
	Chair: Allen Leung	Ana Isabel Sacristán, Homero Enríquez-Ramírez	TECHNOLOGY INTEGRATION BY PRIMARY- SCHOOL TEACHERS IN RURAL MEXICO AND THE DESIGN OF A PROFESSIONAL DEVELOPMENT PROGRAMME

ICTMT 16 – CONFERENCE AGENDA 7-10/6/2023

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	Research Reports	Rebecca Samantha Stäter, Matthias Ludwig	DESIGNING A DIGITAL LEARNING ENVIRONMENT FOR COMPUTATIONAL THINKING: THE FOUR PILLARS OF <colette></colette>
	3.2 "Digital games" Room 2 Chair: Maria Latsi	Ljerka Jukić Matić, <u>Sonia Palha</u>	INTEGRATING DIGITAL GAMES IN THE CLASSROOM: A CASE STUDY WITH GAME PROBCHALLENGE
		Sonia Palha, Anders Bouwer, Daan van Smaalen, Kevin Hooijschuur	FOSTERING JOYFUL PRACTICE WITH DIGITAL EDUCATIONAL GAMES: THE FUNCTION DUNGEON GAME
	Research Reports	Camilo Sua, Angel Gutiérrez, Adela Jaime	OBSERVING THE SPACE THROUGH THE PLANE: ANALOGIES PROMOTED WITH DYNAMIC GEOMETRY ENVIRONMENTS
13:30 – 15:00	3.3 "Teaching and learning of Geometry"	Maria Rosaria Del Sorbo, Maria Giuseppina Adesso, Roberto Capone, Oriana Fiore, Giovanna Quercitelli	GEOMETRY IN THE METAVERSE: ARE HIGH SCHOOL TEACHERS RESPONSIVE TO CHANGE?
	Room 3 Chair: Bärbel Barzel	<u>Dubravka Glasnović Gracin</u> , Ana Krišto	DO DIGITAL TEXTBOOKS OFFER NEW OPPORTUNITIES FOR GEOMETRY EDUCATION? AN ANALYSIS OF TASK FEATURES
	Research Reports 3.4	Daniel Thurm, <u>Eirini Geraniou</u> , Uffe Thomas Jankvist	UNPACKING TEACHER BELIEFS ABOUT MATHEMATICAL DIGITAL COMPETENCY
	"Teachers' professional	Francesco Saverio Tortoriello, <u>Ilaria Veronesi</u>	USING GRAPHING CALCULATORS IN TEACHER EDUCATION
	identity and development" Room 4 Chair: Birgit Pepin	<u>Giulia Lisarelli</u> , Mirko Maracci, Bernardo Nannini	THE MOVING ARROWS ENVIRONMENT: A DIGITAL ARTIFACT FOR MEDIATING THE MEANINGS OF VARIABLE AND UNKNOWN
	Keynotes 3.2 / Amfit	heatre Maraslion Didaskalion	Scalling up in-service
15:10 - 16:40	<u>Dimitra Egarchou</u> , CTI Diophantus, <u>Chronis Kynigos</u> , NKUA		professional develompent for teachers: a 20-year
		s Zagouras, CTI Diophantus,	intervention towards the use of digital media in classroom
16:40 - 17:10	University of Patras Coffee Break		aigitai iireala iirelassi ooni
17:10 - 18:40	Teacher's Posters		
17:30 - 19:00			
	Museum (Optional)		
19:00 - 20:00	Walk & Talk: Aristotle's Peripatetics		
20:00 - 23:00	Conference Dinner (Optional)		

ICTIVIT 10 - COM	ERENCE AGENDA 7-10/6	72023	
Saturday 10 June, 2023 – Maraslion Didaskalion			
	Workshop Sessions		
	(The unde	rlined author is also the cha	
	Workshop Session		
	4.1	Amber Manders	CREATE YOUR OWN MATH EDUCATIONAL
	Room 1	<u>runder manders</u>	CONTENT WITH SOWISO
	Workshop Session		AUGMENTING BLOCK PLAY: USING AI TO RECOGNISE AND RESPOND TO ARRANGEMENTS
	4.2	Michael William Rumbelow	
9:00 - 10:30	Room 2	Whichael William Rumbelow	OF PHYSICAL BLOCK MANIPULATIVES
	Workshop Session		
	4.3	Myrto Karavakou, Daan van Smaalen	GAMMA - Games for Mathematics Education
	Room 3		
	Workshop Session		LIGHTS SHENT VIDEO TAGUS TO SDADY DISCUSSION
	4.4	Bjarnheiður Kristinsdóttir	USING SILENT VIDEO TASKS TO SPARK DISCUSSION IN THE MATHEMATICS CLASSROOM
	Room 4		
10:30 - 11:00	Coffee Break		
	Keynotes 4.1 / Amfitheatre Maraslion Didaskalion		
11:00 - 12:30	Plenary International Projects		
	Chair: Giorgos Psycharis (NKUA)		
12:30 – 13:30	Light Lunch		
	Keynotes 4.2 / Amfitheatre Maraslion Didaskalion		
	Plenary Panel: Celia Hoyles (University College London), Richard Noss (University College		
13:30 - 15:00	London), <u>Marcelo Milrad</u> (Linnaeus University), <u>Sonia Abrantes Garcêz Palha</u> (Hogeschool van		
	Amsterdam),		
	<u>Christian Bokhove</u> (Southampton University) Chair: Manolis Mavrikis (University College London)		
		Closing Cerem	
15:00 – 15:30	Chair: Hans-Georg Weigand (Wuerzburg University)		