"STE(A)M educators and education"

CONFERENCE PROGRAMME

Friday May 7 2021 - Morning

Greek Time	Note that Central European Time (CET) is Greek Time -1 hour					
	Session 1 (Webex Link)					
09:20-09:30		Welcome music event				
10:00-10:20	Scientific Paper 9	S1-R5	Measuring STEAM Learning Outcomes with an Authentic Assessment Tool	Ioannis Ioannou & Andri Vrioni		
10:20-10:40	Scientific Paper 10 S1-R5 The engineering of the Revolution of 1821. Proposal for didactic utilization of the Kounavi					
10:40-11:00	11 Kontogouri,		Stamatia Kotretsou, Evanthia Kontogouri, Georgios Reppas & Paraskevi Theophanidou			
11:00-11:20	Scientific Paper 12	S1-R5	Music and STEM. Multiple sides of the same coin	Petros Stergiopoulos		
11:20-11:30	Break					
	Session 2 Plenary Session (Webex Link)					
11:30-12:30	Official Opening Ceremony- Music by the Philharmonic Orchestra of Corfu					
12:30-13:15	How can the new science of Complexity educate young people on how to realize their talents and choose their future? Anastassios Bountis, Professor Emeritus, Department of Mathematics, University of Patras & Corresponding Member of the Academy of Athens					
13:15-14:00	From Aristotle to Heraclitus and from binary to quantum computers Aristotelis Raptis, Professor Emeritus, Department of Primary Education, University of Athens					
14:00-16:00	Lunch break					

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Friday May 7 2021 – Afternoon

			Session 3		
16:00 – 17:30	Workshop	(Webex R5) S3–R5	Paper folding in STEAM education		Spreafico Maria, Aggregate Professor Politecnico di Torino
		(Webex R4)			
16:00-16:15	Educational Practice 15	S3-R4	STEAM with LED	Secondary/ Vocational senior high school	Elena Dougia
16:15-16:30	Educational Practice 16	S3-R4	Strengthening European Cultural Heritage through STEAM	Secondary/ senior high school	Chrysoula Nenou & Lazaros Moisiadis
16:30-16:45	Educational Practice 17	S3-R4	Flight of fancy: An imaginative though realistic idea	Secondary/ junior high school	Sofronia Maravelaki
16:45-17:00	Educational Practice 18	S3-R4	From White to Black: the Wheel of Colours in Science and Art	Secondary	Theodora Gkeniou
17:00-17:15	Educational Practice 19	S3-R4	Let`s play music! : with Lego EV3 & Python	Secondary/ senior high school	Nikolaos Diamantopoulos
17:15-17:30	Break				
Session 4 Plenary Session (Webex Meeting Link) 17:30-18:00 Teaching transformation through learning design amid a pandemic: the case of a machine learning course George Magoulas, Professor, Director Birkbeck Knowledge LAB, Birkbeck College, University of London					
18:00-18:30	A conceptual framework for computational STEAM integration: crosscutting concepts, threshold concepts, border objects and their propagation in STEM integrational fusion Sarantos Psycharis, Professor, School of Pedagogical and Technological Education (ASPETE) & Chairman of Hellenic Education Society for STEM Education (E3STEM)				
18:30-18:40	Break				
			Session 5 (Webex Meeti	ng Link)	
18:40-19:40	Round Table R-5 Learning by playing through STEAM			ng through STEAM	Barbieri Giovanni, Project Manager GemIn
19:40-20:00	Awards ceremony (Best Paper Awards Educational practices & photo contest)				

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Saturday May 8 2021 - Morning

			Session 6				
09:20-09:30	Welcome music event						
09:50-10:50	Round Table	R-5	Sarantos Psycharis, Professor School of Pedagogical and Technological Education-ASPETE / President E3STEM				
10:50-10:55			Break				
Session 7 Plenary Session (Webex Meeting Link)							
10:55-11:10	Greetings	Greetings					
11:10-12:10 (Webex Link)	Session organized by the Joint Research Center (JRC) European Commission DigCompEdu , SELFIE and SELFIE for teachers STE(A)MCompEdu						
12:10-12:40 (Webex Link)	STEM as a means of introducing modern science to school. Two characteristic examples Michalis Orfanakis, Physicist, Science teacher, 1st General Lyceum of Ierapetra						
12:40-12:45	Break						
			Session 8 (Webex Meeting Link)				
12:45-14:00	()				Balomenou Athanasia, Educational Work Coordinator		
12:45-13:00	Educational Practice 20		Playing with Aesop's fox differently	Primary/Pre-school	Eleni-Konstantina Eglezou		
13:00-13:15	Educational Practice 21	e R2	Earthquakes and Safe cities 4 all with STEAM	Primary	Georgia Lascaris & Stavroula Skiada		
13:15-13:30	Educational Practice 22		NBS and Hardy Plants for a Sustainable City	Primary	Stavroula Skiada & Georgia Lascaris		
13:30-13:45	Educational Practice 23	e R2	Functional Model of an Electric Generator with the use of Breadboard	Primary	Rania Labou		
14:00-16:00			Lunch break				

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Saturday May 8 2021 - Afternoon

Session 9 (Webex Meeting Link)						
16:00-17:00	Round Table 8	d Table 8 R5 STEAM-IT project		Evita Tassiopoulou		
17:00-17:15	Educational Practi 44	ce R3	A STEM approach utilizing ICT and Educational Secondary/ Robotics: Quality control on fruit and vegetable Vocational ser preparative processing.	ior Pesic Gordana		
17:15-17:30	Break					
47-20-40-02	Session 10 Plenary Session (Webex Meeting Link)					
17:30-18:00	Open Schools: Creating the ideal enviroment for STEM implementation Sofoklis Sotiriou, PhD, Head of RD Department, Ellinogermaniki Agogi					
18:00-18:30	The impact of IoT, open technologies and open construction spaces, in the field of education and research in STE(A)M for all educational levels Konstantinos Kalovrektis, Adjunct Professor, University of Thessaly & Coordinator of the Scientific Committee STEAM of ELLAK					
18:30-18:40	Break					
Session 11						
18:40-19:00	Scientific Paper 39	S11-R5 Diving into CHOICE Framework for Reforming STEM curricula through STE(A)M approach in education		h Athanasia Balomenou & Elena Sarlis		
19:00-19:20	Scientific Paper 40	er S11-R5 Advances of STEM approach in Engineering Pedagogy: Computational Ioannis Paliokas & Glykeria Ka				
19:20-19:40	Scientific Paper 41	S11-R5	A Conceptual Framework for Computational STEAM Integration. Crosscutting Concepts, Threshold Concepts, Border Objects and their propagation in STEM integrational fusion Sarantos Psycharis & Konst Kalovrektis			
19:40-20:00	Scientific Paper 42	S11-R5	Educators' competences for STE(A)M education: a case study in Greece Natalia Spyropoulou & Achilles Kame			

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Sunday May 9 2021 - Morning

Session 12 (Webex Link)						
10:20-10:30	Welcome music event					
10:30-10:50	Scientific Paper 51	S12-R5	Developing a Smart Chemical Liquid Device with Lego EV3 and Python: A STEM teaching proposal	Nikolaos Diamantopoulos & Hlias Spanos		
10:50-11:10	Scientific Paper 52	S12-R5	Niki Evelpidou, Sarantos Psycharis, Paraskevi latrou, Konstantinos Kalovrektis & Apostolos Xenakis			
11:10-11:30	Scientific Paper 53	S12-R5	Robotics as a dynamic vehicle toward STEAM Education in 21st century classroom	Katerina Glezou		
11:30-11:50	Scientific Paper 54	S12-R5	Mobile Learning with Computation Thinking for VIs	Pantelis Kydonakis, Sarantos Psycharis, Paraskevi Theodorou & Peter Williams		
11:50-12:00	Break					
	Plenary Session 13 (Webex Link)					
12:00-12:30	Greetings					
12:30-13:00	STEM or CTEM? Eugenia Koleza, Professor of Mathematics Education, University of Patras					
13:00-13:30	Pedagogical approaches to STE(A)M education Anastasios Mikropoulos, Professor, University of Ioannina					
13:30-15:30	Lunch break					

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Sunday May 9 2021 - Afternoon

Session 14							
	Workshop 11	S14-R6	Collaborative Activities in eTwinning projects		Athanasia Zafeiropoulou		
16:15-16:30	Educational practice 46	S14-R2	Black History Month	Primary	Marianhti Alexandropoulou		
16:30-16:45		Break					
Session 15 Plenary Session (Webex Link)							
16:45-17:15	16:45-17:15 Aerial robotics in education: Current status, affordances and challenges George Koutromanos, Assistant Professor, Department of Education, National and Kapodistrian University of Athens						
17:15-17:45	Fighting for social justice in STEAM education Manolis Wallace, Associate Professor, Department of Informatics and Telecommunications, University of Peloponnese & Founder and director of ΓΑΒ LΑΒ - Knowledge and Uncertainty Research Laboratory						
17:45-18:00	Conclusions – Closing Ceremony						