



The DigiSTEM International Conference

Innovating Education through Digital Transformation (IEDT 2024)

DigiSTEM (Promoting Digital Learning in STEM Subjects) Project

Department of Mathematics and Computer Science (DMI),
 Faculty of Civil, Industrial and Agricultural Buildings (FCCIA),
 Technical University of Civil Engineering Bucharest (UTCB),

Address: 122-124 Lacul Tei Bvd., Sector 2, 020396 Bucharest, Romania & (MS TEAMS cod: **lwex929**)

10 October 2024

Hybrid Meeting (on Microsoft Teams)

CONFERENCE PROGRAMME

Thu October 10th, 2024

14:00 - 14:15	<i>Conference Opening</i>	Online+Room:	I-3
14:15 - 15:00	Main Plenary	Online+Room:	I-3
15:00 - 17:00	Plenary Session (I)	Online+Room:	I-3
17:00 - 17:30	<i>Coffee Break</i>	Online+Room:	I-5
17:30 - 18:30	Plenary Session (II)	Online+Room:	I-3
18:30 - 19:00	Roundtable Discussion	Online+Room:	I-3
19:00	<i>Conference Closing</i>	Online+Room:	I-3

DETAILED PROGRAM

ROOM	I-3 (FCCIA, first floor) + ONLINE (MS- TEAMS, lwex929)
14:00 – 14:15	<i>Conference Opening</i>
CHAIR:	Marianna Leikomaa (TAMK - Tampere University of Applied Sciences, Finland)
MAIN PLENARY	
14:15 – 15:00	DigiSTEM (Promoting Digital Learning in STEM Subjects) Project Kirsi-Maria Rinneheimo (TAMK - Tampere University of Applied Sciences, Finland) Daniela Velichova (STUBA - Slovak University of Technology in Bratislava, Slovakia) David Luengo Garcia (UPM - Polytechnic University of Madrid, Spain) Ion Mierlus Mazilu (UTCB - Technical University of Civil Engineering, Bucharest)
PLENARY SESSION (I)	
15:00 – 15:15	DIGITALIZATION OF STEM EDUCATION – A CHALLENGE, THREAT OR WIN? Daniela Velichová Slovak University of Technology in Bratislava, Bratislava, Slovakia
15:15 – 15:30 ONLINE	TIME TO ADAPT CIVIL ENGINEERING CURRICULUM IN POLIS UNIVERSITY: INNOVATIVE VISIONS FOR THE NEW CENTURY Ilda Rusi POLIS University, Tirana, Albania
15:30 – 15:45 ONLINE	CHALLENGES AND OPPORTUNITIES FOR ESL INTEGRATION INTO STEAM EDUCATION Jevgenija Jerochina-Labanauskiene Klaipėda University, Klaipėda, Lithuania
15:45 – 16:00 ONLINE	INTEGRATION OF DIGITAL TOOLS IN BIOLOGY-CHEMISTRY STEAM ACTIVITIES Rita Jankauskiene, Martyna Pareigyte Klaipėda University, Klaipėda, Lithuania



16:00 – 16:15 ONLINE	LEVERAGING DIGITAL TECHNOLOGIES FOR INTERACTIVE LEARNING IN PHYSICS EDUCATION WITHIN THE STEAM EDUCATION FRAMEWORK Vilius Skarbalius, Tomas Daukšas Klaipėda University, Klaipėda, Lithuania
16:15 – 16:30 ONLINE	GAMIFICATION OF STEAM LEARNING EXPERIENCES Evaldas Zacharevičius, Olga Berežnova Klaipėda University, Klaipėda, Lithuania
16:30 – 16:45 ONLINE	ENHANCING STEAM EDUCATION THROUGH ROBOTICS: A PRACTICAL APPROACH TO MATH AND PHYSICS LEARNING Gediminas Gričius Klaipėda University, Klaipėda, Lithuania
16:45 – 17:00 ONLINE	EXPLORING THE ROLE OF LEARNING ANALYTICS IN ENHANCING PERSONALIZED MATH AND SCIENCE EDUCATION: INSIGHTS FROM LITHUANIAN TEACHERS Gražina Šmitienė, Julija Melnikova, Aleksandra Batuchina, Gita Šakytė-Statnickė* Klaipėda University, Klaipėda, Lithuania *Klaipėdos valstybinė kolegija, Klaipėda, Lithuania
17:00 – 17:30	<i>Coffee Break</i>
PLENARY SESSION (II)	
17:30 – 17:40	THE INTERDISCIPLINARY CHARACTER OF MATHEMATICS IN DIGITAL APPLICATIONS Alina Paraschiv ¹ , Aurora Ciachir ² , Anghelescu Alice ³ , ¹ The School Inspectorate of the Bucharest Municipality, Bucharest, Romania ² "Leonardo da Vinci" Secondary School, Bucharest, Romania ³ Technical University of Civil Engineering of Bucharest, Bucharest, Romania
17:40 – 17:50	INNOVATION AND CULTURE IN THE DIGITAL WORLD Terinte-Olteanu Giorgiana „Sfântul Sava” National College, Bucharest, Romania
17:50 – 18:00	EVERYDAY APPLICATIONS OF MATRICES Sofia Nae, Stanescu Loredana Andreea, Nicolaie Iarina Alexia, Vasilescu Mara Alexandra „Sfântul Sava” National College, Bucharest, Romania
18:00 – 18:10	BITWISE OPERATORS Nae Sofia, Cumpănășoiu Denisa-Gabriela, Tulea Ioan Casian „Sfântul Sava” National College, Bucharest, Romania
18:10 – 18:20	IMAGES OF A VECTOR FIELD AND OF ITS FLOW Stefania Constantinescu, Anghelescu Alice Technical University of Civil Engineering of Bucharest, Bucharest, Romania
18:20 – 18:30	SPECTROPHOTOMETRIC DETERMINATIONS FROM THE PERSPECTIVE OF INTERDISCIPLINARITY Shajaani Iuliana, Gîtlan Tudor, Costache Tudor „Sfântul Sava” National College, Bucharest, Romania
ROUNDTABLE DISCUSSION	
18:30 – 19:00	Fostering Creativity: Digital Tools for Innovative Teaching and Learning
19:00	<i>Conference Closing</i>