ICUSI 2024 Conference Program

Constanta, Romania, 19-20 September 2024

Ovidius University of Constanta

Faculty of Mathematics and Informatics

124 Mamaia Blvd., Constanta

AB1 Room

Thursday, 19 September 2024

8:00 - 9:00	Registration, AB1 Room
9:00 – 9:20	Opening session ICUSI 2024
0.00 40.40	Session Chair: Crenguta Puchianu, Ovidius University of Constanta
9:20 – 10:40 Paper session 1	Virtual Reality & User experience Session Chair: Dorin-Mircea Popovici, Ovidius University of Constanta
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	Using Virtual Reality in promoting cultural heritage
	Adrian Topoleanu and Dorin-Mircea Popovici
	● StressVR: Visual Analysis Tool for ECG and HR Data in Virtual Reality
	Raul-Alexandru Gorgan, Adrian Sabou and Teodor-Traian Ştefănuţ
	 HCI: Research into the Effects XR has on Users, an Exploratory Study on Apple Vision Pro Panagiotis-Efstratios Chontas, Adrian Iftene and Corneliu-Sabin Buraga
	Fanagiotis-Eistratios Chontas, Aunan mene and Comenu-Sabin buraya
	● Indoor Navigation System Using Augmented Reality Technology at the Technical University of
	Cluj-Napoca
	Dragoş-Andrei Andreşan, Călin Gheorghe Dan Neamțu and Radu Comes
10:40 – 11:00	Coffee break
11:00 – 12:00	Research Directions in Cross Reality
Invited talk	Mark Billinghurst, professor of Human Computer Interaction at the University of South
	Australia, professor at the University of Auckland's Bioengineering Institute and director
	of the Empathic Computing Laboratory
	Session Chair: Dragos Datcu, Huawei Research Center Amsterdam, Netherlands
12:00 – 13:00	Interaction and learning
Paper session 2	Session Chair: Victor Ioan Bâcu, Technical University of Cluj-Napoca
	C T A D C Stellar Teaching and Astronomical Pagliam Simulator
	S.T.A.R.S Stellar Teaching and Astronomical Realism Simulator Octavian-Mihai Matei and Adrian Sabou
	Octavian Milital Mater and Manan Gabou
	● VRduino Learning: Introduction in Arduino with Virtual Reality
	Georgiana-Alexandra Bodea and Victor Ioan Bâcu
	Virtual reality application for learning geography with gesture interaction
	Maria Vasilache, Adrian Sabou and Teodor-Traian Ştefănuţ
13:00 – 14:00	Lunch break
14:00 – 15:00	Games, vision & animation
Paper session 3	Session Chair: Costin Pribeanu, Academy of Romanian Scientists, Romania
	• Design and Implementation of a 2D Come Engine Algorithmic Angus and Design
	 Design and Implementation of a 2D Game Engine: Algorithmic Approaches and Performance Optimization
	Maria Pasca and Constantin Ioan Nandra
	Simfonia Silentio: The Impact of the Exclusively Auditory Game in Creating Equality and
	Innovation in the Gaming Universe
	Patrick Antony Tudorie and Dorin-Mircea Popovici

	Spatial Big Data Visualization and Manipulation Maria Gliga Hambet and Dorian Gorgan
15:00 – 15:20	Coffee break
15:20 – 16:20 Paper session 4	Education in USI Session Chair: Dorian Gorgan, Technical University of Cluj-Napoca
	Tomorrow's Classroom: Virtual Reality Chemistry Lab Alina Duca and Adrian Iftene
	Exploring the role of web accessibility in inclusive education: a case study Marian Padure and Costin Pribeanu
	The Development Process of eLearning Application for Configurations of the Operating Room Daria Elena Melinte and Adrian Iftene
	Predictors of student satisfaction - The role of social capital and teacher support Costin Pribeanu, Gabriel Gorghiu and Elena-Ancuta Santi
16:20 – 17:20 Paper session 5	Artificial intelligence applications in USI Session Chair: Elena Băutu, Ovidius University of Constanta
	Explainable Artificial Intelligence Techniques for Extended Reality Systems: a Systematic Literature Review Clara Maathuis, Marina Anca Cidota, Dragos Datcu and Letitia Marin
	Clara Maduruis, Marina Arica Cidota, Dragos Datcu and Letitia Marin
	 A P300-based Brain-Computer Interface to Control a 3D LabVIEW Simulation using GTEC Unicorn P300 Speller Aimed at Cognitive Training Oana Andreea Rusanu
	 Generative Al System to Support Decision-Making on Public Procurement Legislation by Fine- Tuned Large Language Models Dragos Datcu and Clara Maathuis
19:00 – 23:00	ICUSI 2024 Dinner

Friday, 20 september 2024

9:30 – 10:00 Invited talk	Evaluating the User Interaction Experience with Artificial Social Agents Willem-Paul Brinkman, Delft University of Technology, The Netherlands Session Chair: Dragos Datcu, Huawei Research Center Amsterdam, Netherlands
10:00 – 11:00	Machine learning & Deep learning for interactive applications
Paper session 6	Session Chair: Paul Stefan Popescu, University of Craiova, Romania
	Travel Me Now - Convolutional Neural Networks in Augmented Reality Exploration of Paris Miruna-Elena losub and Adrian Iftene
	Recognition of Romanian Sign Language Alphabet Using Convolutional Neural Networks Emilia Maria Nuta and Gheorghe Cosmin Silaghi
	SmartReviewHub: An Al Based Scientific Conference Management System Mihail Popescu, Paul Stefan Popescu and Marian Cristian Mihaescu
11:00 – 11:20	Coffe break

11.00 10.00	10.6
11:20 – 13:00	Software engineering for USI
Paper session 7	Session Chair: Marian Cristian Mihaescu, University of Craiova, Romania
	● INTELLIT Version 2.0 – Advancements and Evaluation of an Enhanced Platform for the
	Modern Romanian Literature
	Alin Dita, Mihaita Stroe, Laurentiu Neagu, Mihai Dascalu and Lucian Chisu
	Improvement of Software Diagnostics with Advanced Execution Logging Andrei-Ionut Nicolaev and Crenguta-Madalina Puchianu
	 Improved Maths Solving Abilities for Transformers Using Flow Engineering Nicolae-Robert Linca and Traian Rebedea
	Smart Eco Driving Assistant Cojocaru Ion, Paul Stefan Popescu and Marian Cristian Mihaescu
	Snoring Analysis System for Automatic Diagnosis of Obstructive Sleep Apnea Syndrome during VR Sleep Therapy
	Dragos Datcu, Florin Stoicescu, Cătălin Ciobanu and Dorin-Mircea Popovici
13:00 – 14:00	Lunch break
14:00 – 15:40	UI types and Interaction modalities
Paper session 8	Session Chair: Ştefan Trăuşan-Matu, Politehnica University of Bucharest
	Computer-support for the analysis of rhetorical devices in texts Stefan Trausan-Matu and Adrian-Dinu Urse
	Enhancing Natural Human Interactions in AR/VR Applications George-Gabriel Constantinescu and Adrian Iftene
	Rhythm analysis of Romanian texts Onur-Şener Veis and Stefan Trausan-Matu
	Onur-gener veis and Stelan Hausan-Iviatu
	Interactive Physics Experiments using Gesture Recognition Mario-Cristian Constantinescu and Anata-Flavia Ionescu
	Analysis of the structure similarity of musical scores Ghiteanu Andrei-Daniel and Stefan Trausan-Matu
15:40 – 16:00	Coffee break
16:00 – 17:30	Building Trustworthy Al-XR Systems Workshop Protocol Session Chairs: Clara Maathuis, Open University, The Netherlands Dragos Datcu, Huawei Research Center Amsterdam, The Netherlands
17:30 – 17:50	Closing session ICUSI 2024 Session Chair: Dragos Datcu, Huawei Research Center Amsterdam, The Netherlands
	Best paper award
	Closing remarks
	Growing remaine