



September 27-29, 2017

Faculty of Organization and Informatics, Varaždin, Croatia

CECIIS 2017 Final Program

DAY 1: Wednesday, September 27 th		Location
09:00-10:00	Registration	Ground Floor Hallway
10:00-10:30	OPENING AND WELCOME SESSION <i>Chair: Vjeran Strahonja</i>	2 nd Floor, Room 1
10:30-11:15	KEYNOTE SPEAKER: Bran Selić (Malina Software Corp., SAD) On the Engineering of Software-Based Systems for the 21st century <i>Chair: Vjeran Strahonja</i>	2 nd Floor, Room 1
11:15-11:45	Coffee Break	Basement, Coffee bar InfoClub
11:45-12:30	KEYNOTE SPEAKER: Sokratis K. Katsikas (NTNU - Norwegian University of Science and Technology, Norway) Security and Privacy Challenges in Intelligent Information Systems <i>Chair: Neven Vrček</i>	2 nd Floor, Room 1
12:30-14:00	Lunch Break	Self-arrangement
12:30-14:00	PROGRAM COMMITTEE MEETING	3 rd Floor, Faculty Hall

Conference Sessions

14:00-15:00	INTELLIGENT INFORMATION SYSTEMS - I <i>Chair: Jasminka Dobša/Ivan Magdalenić</i> <i>Location: 2nd Floor, Room 3</i>	EMERGING TRENDS IN ICT <i>Chair: Neven Vrček/Sandra Lovrenčić</i> <i>Location: 2nd Floor, Room 8</i>
14:00-14:15	Andrej Šorgo, Kosta Dolenc, Boštjan Šumak, Vili Podgorelec, Sašo Karakatič, Marjan Heričko Proposal for Developing an Autonomous Intelligent and Adaptive E-Learning System (AIAES) for Education	Luka Hrgarek, Tatjana Welzer, Marko Holbl Web Browser Data Collection and User Awareness regarding Web Browser Data Exposure
14:15-14:30	Ana-Marija Stjepić Survey of the Determinants of Business Intelligence Systems Adoption in SMEs	Katarina Pažur Aničić, Maja Bedeniković, Nikolina Smetiško Which Are the Most Desired E-Competences of Future ICT Professionals?
14:30-14:45	Danijel Radošević, Ivan Magdalenić, Darko Andročec, Andrija Bernik, Matija Kaniški A Machine Translation Model Inspired by Code Generation	Petar Djerasimović, Gordan Gledec An Overview of Identity Management Systems Usage
14:45-15:00	Markus Schatten, Bogdan Okreša Durić, Igor Tomičić, Nikola Ivković, Mario Konecki, Jurica Ševa, Marko Maliković, Pietro Terna Large-Scale Multi-Agent Modelling of Massively Multi-Player On-Line Role-Playing Games – A Summary	




DAY 1: Wednesday, September 27 th		Location
15:00-15:30	Coffee Break	Basement, Coffee bar InfoClub
15:30-16:15	INTELLIGENT INFORMATION SYSTEMS - II Chair: Jasminka Dobša/Ivan Magdalenić Location: 2 nd Floor, Room 3	SOFTWARE ENGINEERING Chair: Vjeran Strahonja/Zlatko Stapić Location: 2 nd Floor, Room 8
15:30-15:45	Markus Schatten, Igor Tomičić, Bogdan Okreša Durić A Review on Application Domains of Large-Scale Multiagent Systems	Paula Kokić, Boris Tomaš Enhanced Drone Swarm Localization Using GPS and Trilateration Based on RF Propagation Model
15:45-16:00	Bogdan Okreša Durić, Igor Tomičić, Sven Vukelić Model Driven Game Quest Scenario Development for Massively Multi-Player Role-Playing Games: A Case Study	Daniel Strmečki, Ivan Magdalenić Towards an Ontological Model for Modelling and Automatic Code Generation of Complete Web Information Systems
16:00-16:15	Nikola Zornić, Aleksandar Marković Agent-Based Simulation Model for Real-Time Traffic Analyses	Miroslav Stefanović, Đorđe Pržulj, Darko Stefanović, Miloš Vukmanović, Sonja Ristić OCL Specification of Inter-Register Integrity Constraints in Land Administration Systems
17:30-22:30	WELCOME PARTY WITH LIGHT DINNER	Park Boutique Hotel

Parallel Events

10:30-17:30	DAN E-ŠKOLA (IN CROATIAN)  e-Schools: Establishing a System for Developing Digitally Mature Schools (pilot project) co-financed by the European Union from the European Structural and Investment Funds	Ground Floor, Room 10
14:30-15:00	STUDENT POSTER AND PRESENTATION SECTION: Posters Chair: Violeta Vidaček-Hainš	2 nd Floor Hallway
15:00-16:30	STUDENT POSTER AND PRESENTATION SECTION: Presentations Chair: Violeta Vidaček-Hainš	3 rd Floor, Faculty Hall
09:00-15:30	PROJECT PRESENTATIONS: e-Schools DIGITRANS CRISS   	Ground Floor and 2 nd Floor Hallways

DAY 2: Thursday, September 28th		Location
08:30-09:00	Registration	2 nd Floor, Room 3
09:00-10:30	EDUCATION AND LEARNING ANALITICS - I <i>Chair: Blaženka Divjak/Igor Balaban</i> <i>Location: 2nd Floor, Room 3</i>	STRATEGIC PLANNING AND DECISION MAKING <i>Chair: Nina Begičević Ređep/Tihomir Hunjak</i> <i>Location: 2nd Floor, Room 8</i>
09:00-09:15	Karolina Dobi Barišić, Blaženka Divjak, Valentina Kirinić Validation of Survey of Preservice Teachers' Knowledge of Teaching and Technology in the Context of Croatian Educational System	Dario Šebalj, Josip Mesarić, Davor Dujak Predicting Natural Gas Consumption – A Literature Review
09:15-09:30	Andrej Šorgo, Andreja Špernjak Digital Competence for Science Teaching	Aleksandar Hatzivelkos The Mathematical Look at a Notion of the Compromise and Its Ramifications
09:30-09:45	Aleksandra Sobodić, Igor Balaban, Mia Tomašević The Impact of Cultural Dimensions on Student's Use of E-learning System	Aleksander Janeš, Nikola Kadoić, Nina Begičević Ređep The ANP Representation of the BSC
09:45-10:00	Igor Jugo, Božidar Kovačić A Method for Automatic Selection and Interpretation of Student Clustering Models According to their Activity on e-learning System	Antonia Bralić Social Network Analysis of Country Participation in Horizon 2020 Programme
10:00-10:15	Alen Rajšp, Tina Beranič, Paul Wu Horng Jyh, Marjan Heričko Students' Perception of Gamification in Higher Education Courses	
10:30-11:00	Coffee Break	<i>Basement, Coffee bar InfoClub</i>
11:00-12:00	EDUCATION AND LEARNING ANALITICS - II <i>Chair: Blaženka Divjak/Igor Balaban</i> <i>Location: 2nd Floor, Room 3</i>	DATA AND KNOWLEDGE BASES <i>Chair: Alen Lovrenčić/Mirko Maleković/Kornelije Rabuzin</i> <i>Location: 2nd Floor, Room 8</i>
11:00-11:15	Lourdes Guardia, Marcelo Maina, Albert Julia Digital Competence Assessment System: Supporting teachers with the CRISS platform	Marko Horvat A Brief Overview of Affective Multimedia Databases
11:15-11:30	Mario Jadrić, Maja Ćukušić, Željko Garača Analysing Students' Behaviour Patterns in Online Assessment	Dražena Gašpar, Mirela Mabić, Tihomir Krtalić Integrating Two Worlds: Relational and NoSQL
11:30-11:45	Andrina Granić, Jelena Nakić, Maja Ćukušić Preliminary Evaluation of a 3D Serious Game in the Context of Entrepreneurship Education	Slavica Kordić, Sonja Ristić, Milan Čeliković, Vladimir Dimitrieski, Ivan Luković Reverse Engineering of a Generic Relational Database Schema into a Domain-Specific Dana Model
11:45-12:00	Valentina Đurek, Nina Begičević Ređep, Blaženka Divjak Digital Maturity Framework for Higher Education Institutions	Ivan Srđić, Gordan Gledec Contextual Spellchecking Based on N-grams
13:00-14:00	Lunch Break	<i>Self-arrangement</i>
14:30-24:00	CONFERENCE EXCURSION	<i>Trip to Krapina</i>

DAY 2: Thursday, September 28th **Location**

Parallel Events		
09:00-13:00	PROJECT PRESENTATIONS: DIGITRANS CRISS	<i>Ground Floor and 2nd Floor Hallways</i>
	 	
09:00-13:30	Workshop on Data Analysis	<i>Ground Floor, Room 5</i>
12:00-13:00	SPONSORS SECTION <i>Location: 2nd Floor, Room 3</i>	<i>Location: 2nd Floor, Room 8</i>
	INFODOM Goran Marković Predstavljanje projekta DEP (Digital Enterprise Platform) - IN CROATIAN	 Oracle Hrvatska d.o.o. Ljiljana Perica Big Data – Potential, Perspectives & Opportunities

DAY 3: Friday, September 29th **Location**

08:30-09:00	Registration	<i>2nd Floor, Room 3</i>
09:00-10:15	ICT ENTREPRENEURSHIP AND INOVATION <i>Chair: Ksenija Vuković/Marina Klačmer Čalopa</i> <i>Location: 2nd Floor, Room 3</i>	QUALITY OF SOFTWARE AND SERVICES <i>Chair: Melita Kozina/Valentina Kirinić</i> <i>Location: 2nd Floor, Room 8</i>
09:00-09:15	Zrinka Lacković Vincek, Stjepan Dvorski, Ivana Dvorski Lacković A Literature Review on the Application of the Cloud Technology in Supply Chains	Radovan Vrana Acceptance of Open Peer Review by Scientific Publishers
09:15-09:30	Tamara Šmaguc, Ksenija Vuković Institutional Field in The Republic of Croatia: Perspective of Entrepreneurs Pertaining to Computer Programming Activities	Nadica Hrgarek Lechner, Vjeran Strahonja Quality Factors for Mobile Medical Apps
09:30-09:45	Dina Korent, Silvije Orsag Selected Structural and Business Indicators in Manufacturing, Trade and Information and Communication Activities in the Republic of Croatia	Nadica Hrgarek Lechner An Overview of Cybersecurity Regulations and Standards for Medical Device Software
09:45-10:00	Bubanić Marijana, Detelj Kristina Cluster Analysis of Research and Development Expenditure in EU	Renata Mekovec, Nikolina Žajdela Hrustek, Igor Pihir On-Line Behaviour of Users with Different Privacy Concerns
10:00-10:30	CECIIS 2018 ANNOUNCEMENT and CECIIS 2017 CONFERENCE CLOSING	<i>2nd Floor, Room 3</i>
10:30-11:00	Coffee Break	<i>Basement, Coffee bar InfoClub</i>
11:00-13:00	Panel discussion „Academy - Industry Cooperation: Applied Research in ICT“ <i>Chair: Vjeran Strahonja</i>	<i>Ground Floor, Room 10</i>
14:00-15:00	Lunch Break	<i>Self-arrangement</i>
15:00-17:00	GUIDED TOUR OF VARAŽDIN	<i>Meeting: FOI Building Entrance</i>

Parallel Events		
09:00-13:00	PROJECT PRESENTATIONS: DIGITRANS	<i>Ground Floor Hallway</i>
		

