CECIIS

Central European Conference on
Information and Intelligent Systems

Faculty of Organization and Informatics
University of Zagreb

PROGRAM

OCTOBER 13-15, 2021

Opening and Welcome Session, Keynote speeches and Academic panels will be publicly available via provided Zoom links.
Conference sessions will be available to registered participants only via links that will be sent to them by e-mail 24h prior to conference beginning.

OCTOBER 13 — DAY ONE

9:30 – 9:45
Opening and Welcome Session
CHAIR: Neven Vrček
🌐 https://zoom.us/j/91897255016
Open and available to the public

9:45 – 10:45
KEYNOTE SPEECH
Architecting Sustainable Software through Machine Learning: an experience report
Henry Muccini, University of L'Aquila, Information Engineering and Computer Science and Mathematics Department, L'Aquila, Italy
CHAIR: Neven Vrček
🌐 https://zoom.us/j/91897255016
Open and available to the public

10:45 – 11:00 Break

11:00 – 12:00
KEYNOTE SPEECH
Artificial Intelligence in/for the Society
Dunja Mladenić, Jozef Stefan Institute, Department of Artificial Intelligence, Ljubljana, Slovenia
CHAIR: Jasminka Dobša
🌐 https://zoom.us/j/91897255016
Open and available to the public

12:00 – 13:00 Break

Academic Panel

13:00 – 14:30
Accelerating smart industry and digital transformation
CHAIR: Neven Vrček
🌐 https://zoom.us/j/92253240954
Open and available to the public

Conference Sessions

14:30 – 15:45
Education and Learning Analytics
CHAIRS: Blaženka Divjak, Igor Balaban, Josep M Duart

The Impact of Peer Assessment on the Results of Primary School Students' Self-Assessment in the e-learning System Loomen
T. Ređep, L. Žignić, G. Hajdin

Web Platform for Carrer Centers in Higher Education – What do the Students need?
E. Lulić, I. Papac, K. Pažur Aničić

Exploring Ethical Considerations and Challenges in Online Assessment
J. Casas-Roma, J. Conesa, S. Caballé

Education 4.0 and Computer Science: A European perspective
B. Rienties, R. Ferguson, C. Herodotou, F. Iniesto, J.Sargent, I.Balaban, H. Muccini, S. Virkus

Digital propensity among academia members towards Elearning: a Romanian university case study
L. Ciucan-Rusu, D. Ștefan, C. Comes, M. Timuș, E. Bunduchi, M. Popa

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15:45 – 16:00 Break

Conference Sessions

16:00 – 18:00
Trends in Software Engineering
CHAIRS: Zlatko Stapić, William Steingartner, Luis de Marcos Ortega

Employing Portable JavaFX GUIs with Scripting Languages
R. G. Flatscher, G. Müller

Mobile Continuous Authentication in eHealth: A case study for the ProTego project
L. de-Marcos, C. Cilleruelo, J. Junquera-Sánchez

Web Performance Tuning of WordPress-Based Websites Through Automatic Image Optimization
T. Heričko, Š. Čuč ko, B. Šumak, S. Brdnik

Insight of Croatian Open Data Portals Functionalities According to TODO Interdisciplinary Assessment Framework v2.0
A. Kutnjak, L. Hrustek, B. Šlibar, I. Pihir, M. Tomičić-Furjan, N. Žajdela Hrustek, N. Vrček, R. Mekovec

Human Roles, Competencies and Skills in Industry 4.0: Systematic Literature Review
D. Narandžić, I. Spasojević, T. Lolić, D. Stefanović, S. Ristić

Impact of Agile-Hybrid Methods and Approaches on Software Quality: A Systematic Literature Review
Ž. Zekić, Z. Stapić

Data modelling for Blockchain Oriented Software Engineering
P. Rek, M. Turkanović

Some modeling technologies in educating of young IT experts in the field of formal languages and their semantics
W. Steingartner, V. Novitzká, P. Zorvan

Conference Sessions

9:00 - 10:45
Strategic Planning and Decision Making
CHAIRS: Nina Begičević Ređep, Tihomir Hunjak

Eliminating Disparate Impact in MCDM: The case of TOPSIS
S. Radovanović, A. Petrović, B.Delibašić, M. Suknović

An overview of skills foresight methods
J. Štefanić, D. Šimić

Corporate Entrepreneurship and ICT: Trends and Future Research Agenda
I. Sučić Funko, M. Dabić, B. Vlačić

Assessing the Maturity for Digital Education with HFL DEMATEL-HFL ARAS Techniques
G. Büyüközkan, M. Güler, E. Mukul

Evaluation of Sustainability for Turkey's Cities with Hesitant Fuzzy Linguistic MCDM Methods
E. Mukul, M. Güler, G. Büyüközkan

The differences in decision-making styles in the Croatian student population of military and nonmilitary studies
M. Kostanjevac, M. Gligora Marković, N. Kadoić

10:45 - 11:00   Break

11:00 - 12:00
Sponsors Section
InfoDom, DignetSoftware, Oracle
https://zoom.us/j/99078911378
Open and available to the public

Academic Panel

12:00 - 13:00
Emerging research areas: the vision of journal editors
CHAIRS: Igor Balaban, Josep M Duart
https://zoom.us/j/96909782915
Open and available to the public

13:00 - 14:00   Break

Conference Sessions

14:00 - 15:00
ICT Enterpreneurship and Innovation
CHAIRS: Ksenija Vuković, Marina Klačmer Čalopa

Analysis of Factors Influencing Traditional WOM and eWOM
D. Dobrinić, I. Gregurec

Advanced technologies for open innovation strategies: Systematic literature review
T. Obradović Posinković, M. Dabić

Quality in ICT
CHAIRS: Melita Kozina, Valentina Kirinić

IT Risk Management in the enterprise using CobiT 5
M. Kozina

The Key Elements of a Risk-based Product Security Program for Medical Devices: A Scoping Study
N. Hrgarek Lechner

Comparing the colour representation of browsers through the coloured shadow phenomenon
B. Halmosi, C. Sik-Lanyi, R. Hirschler

15:00 - 19:00
Student Poster and Presentation Section
CHAIRS: Violeta Vidaček-Hainš, Victoria Appatova

Conference Sessions

9:00 - 11:00
Intelligent Systems
CHAIRS: Jasminka Dobša, Dunja Mladenić

How good BERT based models are in sentiment analysis of Croatian tweets: comparison of four multilingual BERTs
M. Ptiček

What Makes Machine-Translated Poetry Look Bad? A Human Error Classification Analysis
I. Dunđer, S. Seljan, M. Pavlovski

Preprocessing of roads in OpenStreetMap based geographic data on a property graph
A. Rajšp, M. Heričko, I. Fister jr.

How Are the Economic Conditions and Political Alignment of a Newspaper Reflected in the Events They Report On?
A. Sittar, D. Mladenić

A Survey on 3D Digital Facial Reconstruction Algorithms
E. Barčić, P. Grd

A Survey on Neural Networks for Face Age Estimation
P. Grd

Model for improvement of nonprofit student organizations funding by machine learning and digital transition to blockchain
M. Vasilj, S. Skender, M. Horvat

The Polarity of Croatian Online News Related to COVID-19: A First Insight
A. Ilić, S. Beliga

11:00 - 11:15   Break

Conference Sessions

11:15 - 12:30
Computer Games
CHAIR: Markus Schatten

Conceptual Architecture of a Cognitive Agent for Telemedicine based on Gamification
M. Schatten, B. Okreša Đurić, R. Protrka

A Game Engine Layer for the Implementation of Massively Multiplayer On-line Interactive Fiction
M. Schatten, T. Peharda, J.Rasonja

Automated Educational Game Design from EBooks
G. G. Smith, B. Okreša Đurić, M. Ricijaš

An Active Game Bot Detection with Security Bots
I. Tomičić, T. Peharda, A. Bernik

Data and Knowledge Bases
CHAIRS: Sandra Lovrenčić, Patrizia Poščić

Dependency-based Labeling of Associative Lexical Communities
B. Perak, T. Ban Kirigin

12:30 - 12:45   Break

Conference Sessions

12:45 - 14:15
Digital Transformation and Corporate Culture
CHAIR: Anna Czarczyńska, Katarina Tomičić Pupek

Development of a conceptual digital technology acceptance model for micro and small organizations
D. Dobrinić

Conceptual model of smart industry value chain
L. Hrustek, N. Vrček, S. Vidović

Digital Transformation in Croatia: Contextual analysis
M. Barić, M. Alić

E-business and Digital Transformation in Client to Bookkeeping Communications: Longitudinal Case Study
S.Vidačić, I. Pihir, A. Kutnjak

Comprehension of digital transformation through the prism of an organizational design and redesign framework
R. Fabac

The importance of service user trust in the collaborative economy
A. Karačić, I. Marić, J. Kovač

14:15 - 14:30   Break

14:30 - 15:00
Best Paper Award, CECIIS 2022 Announcement, Conference Closing