
**Eighth International Conference on
Modelling and Development of Intelligent Systems**
October 28-30, 2022, Sibiu, Romania

P R O G R A M

FRIDAY, October 28, 2022
Room A27
International Conference – MDIS 2022
Modelling and Development of Intelligent Systems

organized by
Faculty of Sciences, Research Center in Informatics and Information Technology
Lucian Blaga University of Sibiu, Romania

10⁰⁰ – 10¹⁰	Opening ceremony
10¹⁰ – 10⁴⁰	Keynote Speaker Dan Cristea , "Alexandru Ioan Cuza" University of Iași, Romania <i>A Technology of Deciphering Old Cyrillic-Romanian</i>
10⁴⁰ – 11⁴⁰	Papers presentation - Chair Dan Cristea
10 ⁴⁰ – 11 ⁰⁰	Dana Simian, Felix Husac <i>Overview of challenges and opportunities in Deep Learning driven Fashion and Textiles development</i>
11 ⁰⁰ – 11 ²⁰	Cezar-Marian Păpară <i>An empirical study of large transportation networks and solutions for the cost optimization</i>
11 ²⁰ – 11 ⁴⁰	Marco Leon Olescu <i>Is low-code the new high?</i>
11⁴⁰ – 12⁰⁰	Coffee break
12 ⁰⁰ – 12 ³⁰	Keynote Speaker Marcel Kyas , Reykjavik University, Reykjavik, Iceland <i>Autonomous Drones and Analogue Missions</i>
12³⁰ – 13³⁰	Papers presentation - Chair Dana Simian
12 ³⁰ – 12 ⁵⁰	Marko Stankovic, Nebojsa Bacanin, Miodrag Zivkovic, Dijana Jovanovic, Milos Antonijevic, Milos Bukmira, Ivana Strumberger <i>Feature Selection and Extreme Learning Machine Tuning by Hybrid Sand Cat Optimization Algorithm for Diabetes Classification</i>

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12 ⁵⁰ – 13 ¹⁰	Zornitsa Dimitrova, Daniela Borissova, Rossen Mikhov, Vasil Dimitrov <i>Group Decision-Making Involving Competence of Experts in Relation to Evaluation Criteria: Case Study for e-Commerce Platform Selection</i>
13 ¹⁰ – 13 ³⁰	Roman Peleshchak, Vasyl Lytvyn, Oleksandr Mediakov, Ivan Peleshchak <i>Morphology of Convolutional Neural Network with Diagonalized Pooling</i>
13 ³⁰ – 15 ⁰⁰	Lunch break
15 ⁰⁰ – 16 ²⁰	Papers presentation – Chair Florin Stoica
15 ⁰⁰ – 15 ²⁰	Venelin Todorov, Slavi Georgiev <i>Innovative lattice sequences based on component by component construction method for multidimensional sensitivity analysis</i>
15 ²⁰ – 15 ⁴⁰	Nebojsa Bacanin, Aleksandar Petrovic, Milos Antonijevic, Miodrag Zivkovic, Marko Sarac, Eva Tuba, Ivana Strumberger <i>Intrusion Detection by XGBoost Model Tuned by Improved Social Network Search Algorithm</i>
15 ⁴⁰ – 16 ⁰⁰	Venelin Todorov, Slavi Georgiev <i>On an optimization of the lattice sequence for the multidimensional integrals connected with Bayesian statistics</i>
16 ⁰⁰ – 16 ²⁰	Jean Dezert, Florentin Smarandache, Albena Tchamova <i>Analytical Solution of the Simplest Entropiece Inversion Problem</i>
16 ²⁰ – 16 ⁴⁰	Coffee break
16 ⁴⁰ – 17 ⁴⁰	Papers presentation – Chair Nicolae Constantinescu
16 ⁴⁰ – 17 ⁰⁰	John Musgrave, Temesguen Messay-Kebede, David Kapp, Anca Ralescu <i>Latent Semantic Structure in Malicious Programs</i>
17 ⁰⁰ – 17 ²⁰	Edwin Cocha Tobanda, María Cristina Erazo, Sang Guun Yoo <i>Gaze Tracking: A Survey of Devices, Libraries and Applications</i>
17 ²⁰ – 17 ⁴⁰	Kowshik Bhowmik, Anca Ralescu <i>Bridging the Resource Gap in Cross-lingual Embedding Space</i>
18 ³⁰	Welcome Dinner (Împăratul Romanilor)

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SATURDAY, October 29, 2022
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10⁰⁰ – 10³⁰	Keynote Speaker Detlef Streitferdt , Technische Universität Ilmenau, Germany <i>Inside Neural Networks</i>
10³⁰ – 11¹⁰	Papers presentation – Chair Dana Simian
10 ³⁰ – 10 ⁵⁰ 10 ⁵⁰ – 11 ¹⁰	Cristian Popescu, Alina Bărbulescu <i>Flash flood simulation between Slănic and Vărbilău rivers in Vărbilău village, Prahova county, Romania, using hydraulic modeling and GIS techniques</i> Sorin Ionut Conea, Gloria Cerasela Crisan <i>Integrated system for sensing home hazards</i>
11¹⁰ – 11³⁰	Coffee break
11³⁰ – 12³⁰	Papers presentation – Chair Nicolae Constantinescu
11 ³⁰ – 11 ⁵⁰ 11 ⁵⁰ – 12 ¹⁰ 12 ¹⁰ – 12 ³⁰	Andreea Vântu, Anca Vasilescu, Alexandra Băicoianu <i>ML-based Solution for Emergency Room Triage</i> Stefan-Bogdan Marcu, Sabin Tabirca, Mark Tangney, Yanlin Mi, Venkata V B Yallapragada <i>Generating Jigsaw Puzzles and AI powered solver</i> Amelia Bucur, Dana Simian <i>A Generalization of the SEIR model</i>
12³⁰ – 13³⁰	Lunch break
13³⁰ – 14⁵⁰	Papers presentation – Chair Florin Stoica
13 ³⁰ – 13 ⁵⁰ 13 ⁵⁰ – 14 ¹⁰	Livia Sangeorzan, Nicoleta Enache-David, Claudia-Georgeta Carstea, Ana-Casandra Cutulab <i>Tasks Management Using Modern Devices</i> Atanas Atanasov, Miglena Koleva, Lubin Vulkov <i>Numerical Optimization Identification of a Keller-Segel Model for Thermoregulation in Honey Bee Colonies in Winter</i>

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14 ¹⁰ – 14 ³⁰	Hafeez Khan Mohammed Abdul, Hrishikesh Sabnis, Angel Arul Jothi J., Kanishkha J., Deva Prasad A M <i>Classification of Microstructure Images of Metals using Transfer Learning</i>
14 ³⁰ – 14 ⁵⁰	Ahmad Rezaei, Johannes Richter, Johannes Nau, Detlef Streitferdt, Michael Kirchhoff <i>Transparency and Traceability for AI-based Defect Detection in PCB Production</i>
14 ⁵⁰ – 15 ¹⁰	Coffee break
15 ¹⁰ – 16 ³⁰	Papers presentation – Chair Dana Simian
15 ¹⁰ – 15 ³⁰	Tihomir Gyulov, Lubin Vulkov <i>Gradient Optimization in Reconstruction of the Diffusion Coefficient in a Time Fractional Integro-Differential Equation of Pollution in Porous Media</i>
15 ³⁰ – 15 ⁵⁰	Sabina Surdu <i>Enriching SQL-Driven Data Exploration With Different Machine Learning Models</i>
15 ⁵⁰ – 16 ¹⁰	Kiril Alexiev, Nevena Slavcheva <i>A Method for Target Localization by Multistatic Radars</i>
16 ¹⁰ – 16 ³⁰	Monika Arya, Hanumat Sastry G <i>Effective LSTM neural network with Adam optimizer for Improving Frost Prediction in Agriculture Data Stream</i>
16 ³⁰ – 17 ⁰⁰	Keynote Speaker Milan Tuba , Singidunum University, Belgrade, Serbia <i>Recent Topics of Convolutional Neural Networks Applications</i>
18 ³⁰	Official dinner (Împăratul Romanilor)