

Opening Ceremony and Plenary Talks are hybrid events. You can join via Teams: bit.ly/SACI2023_Teams_link (EEST time zone)

Venue: **Conference Center** (address: Vasile Parvan no. 2)



Map: bit.ly/3IbvpeD

May 24 (Wednesday)

8:00 – 12:30 and 14:00 – 16:00

Registration

Lobby

9:00 – 9:30 Opening Ceremony

Auditorium

9:30 – 10:10 Plenary Talk I
Session chair: Ciprian-Bogdan Chirila

Auditorium

5875	Dana Petcu	Cognitive Cloud Continuum
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10:10 – 10:50 Plenary Talk II

Auditorium, via Teams

Session chair: Imre J. Rudas

You can join via Teams: bit.ly/SACI2023_Teams_link (EEST time zone)

5171	Nikola Kasabov	Neuroinformatics, Neural Networks and Neurocomputers for Brain-inspired Computational Intelligence
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10:50 – 11:10 Coffee break

11:10 – 12:10 [W1a] Session on Intelligent Robotics I**Auditorium**

Session chair: Radu-Emil Precup

3596	Enikő Nagy and Ildiko Holik	Educational robots in higher education - findings from an international survey
4434	Barbara Abonyi-Tóth and Ákos Nagy	Autonomous Exploration Using a Tree Structure For Goal Selection
7959	Dénes Tompos and Balázs Németh	Safe trajectory design for indoor drones using reinforcement-learning-based methods

11:10 – 12:10 [W1b] Session on Computational Intelligence I**Room K1 Amphitheater**

Session chair: Zsolt Čonka

224	Modafar Al-Shouha and Gábor Szűcs	PIC-XAI: Post-hoc Image Captioning Explanation using Segmentation
592	Adriana Berdich, Patricia Iosif, Camelia Burlacu, Alfred Anistoroaei and Bogdan Groza	Fingerprinting Smartphone Accelerometers with Traditional Classifiers and Deep Learning Networks
727	Nader Karballaezadeh, Danial Mohammadzadeh S. and Mohammed Mudabbiruddin	Modeling Road Roughness through Vibration Analysis for Driving Quality and Extended Discussion on AI Potential

12:30 – 14:00 Lunch

CP1

14:00 – 15:40 [W2a] Session on Informatics I**Auditorium**

Session chair: Ádám Csapó

7174	Balazs Solymos and Laszlo Bacsardi	Efficiency improvement of photon arrival time based quantum random number generator with hashing
9645	Tarek Setti and Adam Csapo	GITS: A Graph-Indexed-Tensor Structure for the Adaptive Associative-Semantic Tagging of Digital Documents
6712	Bence Richard Hach, Daniela Stănescu, Lucian Ionel Găină and Bianca Gușiță	The impact of age on NBA player's performances: A Data Mining approach
778	Kristián Fodor, Zoltán Balogh and György Molnár	Real-time Emotion Recognition in Smart Homes
8191	Fruzsina Bene and Attila Kiss	Public Key Infrastructure in the Post-Quantum Era

14:00 – 15:40 [W2b] Session on Computational Intelligence II**Room K1 Amphitheater**

Session chair: Dániel András Drexler

2290	Karballaezadeh Nader, Maarouf Ali, Mohammadzadeh S. Danial, Zamani Sepehr and Mohammed Mudabbiruddin	Machine Learning Approaches for Detection/Classification and Prediction Purposes in Pavement Engineering Studies: An Overview
3077	Eszter Virágh, Dániel András Drexler and Bálint Kiss	Motion planning and modeling for isothermal parallel chemical reactions
4397	Martin Dömény, Melánia Puskás, Levente Kovács and Dániel András Drexler	In silico chemotherapy optimization with genetic algorithm
8171	Tamás Dániel Szűcs, Melánia Puskás, Levente Kovács and Dániel András Drexler	Model predictive fuzzy control in chemotherapy optimization
8598	Lilla Kisbenedek, Melánia Puskás, Levente Kovács and Dániel András Drexler	Indirect supervised fine-tuning of a tumor model parameter estimator neural network

14:00 – 15:30 [W2c] Special Session on PhD Student Research in Applied Informatics and Numerical Mathematics I**via Teams only** - You can join via Teams: bit.ly/SACI2023_Teams_link (EEST time zone)

Session organizer and chair: László Horváth

2481	Zoltán Biczó, Imre Felde and Sándor Szénási	A Novel Machine Learning Solution for the Inverse Heat Conduction Problem with Synthetic Datasets
1742	Ádám Pintér and Sándor Szénási	Longest Common Subsequence-based Source Code Similarity
1859	Ferenc Tolner, Balázs Barta and György Eigner	Economic Resilience and Antifragility: Classification of SMEs' Shock Reactions based on Balance Sheet and Income Statement Data
1951	Kovacs Andras, Szenasi Sandor and Lovas Robert	Vectorisation of Program Codes for Machine Learning Based Resource Estimation
2501	Ghazanfar Shahgholian, Majid Moazzami, Sayed Mohammadali Zanjani, Amir Mosavi and Arman Fathollahi	A Hydroelectric Power Plant Brief: Classification and Application of Artificial Intelligence
3091	Mohammad Merei and József K. Tar	Adaptive Backstepping Control Design for Nonlinear System

15:40 – 16:00 Coffee break

16:00 – 17:40 [W3a] Session on Informatics II**Room K1 Amphitheater**

Session chair: Márta Takács

7290	Jelena Tasic, Márta Takács and Levente Kovács	A Kinetic Model-Based Approach for Estimating Hemoglobin A1c Based on Average Glucose
4506	Krisztián Bálint	Creation of a Unifie University Blockchain for the Purpose of Storing the University's Teaching Materials
3201	Esmeralda Kadena, Silvana Qose and Zoltan Rajnai	5G in Europe: Security and Challenges
5274	Silvana Qose and Rajnai Zoltan	Blockchain Technology in Healthcare Industry: Benefits and Issues
5342	Ashley Hurrelbrink and Alexandru Topirceanu	On the impact of population density and mobility restrictions in the control of epidemic spreading

16:00 – 17:15 [W3b] Special Session on PhD Student Research in Applied Informatics and Numerical Mathematics IIvia Teams only - You can join via Teams: bit.ly/SACI2023_Teams_link (EEST time zone)

Session organizer and chair: László Horváth

3989	Miklós Vincze, Abdallah Benhamida, Bence Biricz and Miklos Kozlovsky	Real-time video streaming in medicine using virtual reality
4542	Ádám Pintér and Sándor Szénási	GPU Acceleration of Longest Common Substrings Algorithm
6210	Marianna Dimitrova Kucarov, Bela Molnár and Miklós Kozlovsky	Single Cell Position Determination and Transformation From Static High-resolution Digital Image To Laser-microdissector Coordinate System Using Image Processing Techniques
6563	José Vicente Egas-L'Opez and Gábor Gosztolya	Using Custom X-vectors for the Automatic Screening of COVID-19 Based on Coughing Audio Samples
9783	Zsolt Krutilla and Attila Prof. Dr. Kóvári	How we can use text classification in the Back-Office environment of a bank as 'business as usual' solution

18:00 Welcome Reception

Restorant Universitar (address: Aleea FC Ripensia no. 1)

May 25 (Thursday)

8:00 – 12:30 Registration

Lobby

8:00 – 10:20 [T1a] Special Session on Applied Mathematics: Nonlinear Phenomena

Auditorium

Session organizer and chair: Alexandru Kristály

5514	Károly Szilák	Schrödinger-Maxwell differential inclusion system
	Árpád Baricz	Generalized gamma convolutions and hyperbolically completely monotone densities
	Sándor Kajántó	Saturation phenomena of a Riemannian non-local eigenvalue problem
	Csaba Farkas	Lower semicontinuity of Kirchhoff-type energy functionals and spectral gaps on (sub)Riemannian manifolds
	Ana Şirianţu	Neerven Type Criteria for Stability of Variational Systems - An Ergodic Theory Approach

via Teams - You can join via Teams: bit.ly/SACI2023_Teams_link (EEST time zone):

6814	Boroka Oltean-Peter and Csaba Farkas	Algorithm for equilibrium in the symmetric two-player Hirshleifer contests
	Genet M. Assefa	Quotients of Whittaker functions and applications in probability theory

8:00 – 10:20 [T1b] Session on Systems Engineering I

Room K1 Amphitheater

Session chair: Péter Kádár

134	Michail Dimitriev, György Morva and Kadar Peter	Testing of 6-500 kV Cables in Polymer Pipes
5450	Lucian Popa, Camil Jichici, Tudor Andreica, Pal-Stefan Murvay and Bogdan Groza	Impact of Wiring Characteristics on Voltage-based Fingerprinting in Controller Area Networks
560	Lourdes Ruiz and Rajnai Zoltan	5G Vendors, cybersecurity and NESAS
7789	Mihaela Codruta Ancuti, Florinel Butaru, Geza Mihai Erdodi, Ciprian Sorandaru, Sorin Musuroi and Razvan Ancuti	Wind System Control at Time-Varying Wind Speeds Using the Perturb and Observe Method
6395	László Horváth	Model Organized Theoretical and Experimental Research in Collaborative Space

9118	Judith Pálfi, Zsolt Čonka, Róbert Štefko and Ferenc Molnár	Development of a complex mathematical model for the extreme voltage fluctuations in the public distribution networks
4043	Michail Dimitriev, György Morva and Kadar Peter	Damage Locating of 6-500 kV Cables in Polymer Pipes

8:00 – 10:20 [T1c] e-poster Special session on Digitalisation, Generation Research, Consumer Trends I

Room K2 Amphitheater

Session organizers and chairs: Mónika Garai-Fodor, Ágnes Csiszárík-Kocsir and János Varga

168	Katalin Jäckel, Mónika Garai-Fodor and Zoltán Gábor Lukács	Jaycustomers in the Hungarian healthcare system
661	János Varga Ph.D., Ágnes Csiszárík-Kocsir Dr.Ph.D., Báborka Eszter Bíró, Kinga Katalin Székely, Boróka Júlia Bíró and Mónika Garai-Fodor	Change Management Practices and the Impact of the Pandemic on Hungarian and Romanian SMEs
2084	Ágnes Csiszárík-Kocsir Dr.Ph.D. and Oszkár Dobos	The place and role of research, development and innovation activities in the life of domestic enterprises along business characteristics
2112	Anett Popovics and Monika Garai-Fodor	Hungarian food purchasing behaviour and promotion opportunities in the light of primary data
3600	Ágnes Csiszárík-Kocsir Dr.Ph.D. and János Varga Ph.D.	Innovation and factors leading to innovative behaviour according to Hungarian businesses
5894	Katalin Jaeckel and Monika Garai-Fodor	What represents value and happiness for the Hungarian Generation Z in 2022-2023?
6594	Szilárd Hegedűs and Csaba Lentner	Evolution of Debt, Revenue and Budget Balance in the Hungarian Local Government System between 2012 and 2021
6900	Csilla Mizser	Green city as a development issue – based on an empirical survey of Budaörs
7213	István Márk Tóth and Ágnes Csiszárík-Kocsir Dr.Ph.D.	Examining the competences needed for an agile approach in different generations
7749	János Varga Ph.D. and Ágnes Csiszárík-Kocsir Dr.Ph.D.	Perception of innovation and innovative projects at user level through the example of the Atala Prism project
7988	Ágnes Csiszárík-Kocsir Dr.Ph.D. and János Varga Ph.D.	The advancing role of digitalisation through the example of the Perlmutter project from the user side
8325	Patrik Viktor and Albert Molnar	Perceptions of Mooc systems among domestic university students at different levels
8485	Patrik Viktor and Monika Garai-Fodor	Generation-specific analysis of adaptive self-driving technology in Hungary
8974	Oszkár Dobos and Ágnes Csiszárík-Kocsir Dr.Ph.D.	Individual-level perception of research, development and innovation in the life of Hungarian enterprises
9698	Monika Garai-Fodor	Digitalisation trends based on consumer research

1137	Péter Váradi, Judit Lukács and Richárd Horváth	Examination of vehicle fraud detection possibilities with the help of Fuzzy inference system
5559	Júlia Zombori, Judit Lukács and Richárd Horváth	Determination of rainfall probability using Response Surface Method

10:20 – 10:40 Coffee break

10:40 – 12:00 [T2a] Special Session on Shared Control and Cooperative Systems

Auditorium

Session organizers and chairs: Simon Rothfuß and Bálint Varga

5662	Márton Jagicza, Gábor László Tóth, Dávid Józsa, Letícia Pekk and Dénes Fodor	Classification of vulnerable road users in terms of automotive radar systems cross-section measurements
7901	Balint Varga, Dongxu Yang and Soeren Hohmann	Intention-Aware Decision-Making for Mixed Intersection Scenarios

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3935	Bálint Kővári, Csanád Balogh and Szilárd Aradi	Multi-Agent Reinforcement Learning for railway rescheduling
7280	Christian Alexander Braun, Aniketh Ramesh, Simon Rothfuß, Manolis Chiou, Rustam Stolkin and Sören Hohmann	Model Predictive Control of the Degree of Automation Optimizing Robot Health

10:45 – 12:00 [T2b] Special Session on PhD Student Research in Applied Informatics and Numerical Mathematics III

Room K1 Amphitheater

Session organizer and chair: László Horváth

302	Dénes-Fazakas Lehel, Máté Siket, László Szilágyi, György Eigner and Levente Kovács	Investigation of reward functions for controlling blood glucose level using reinforcement learning
1521	Massimo Stefanoni, Ákos Odry and Peter Sarcevic	A neural network-based approach for the identification and compensation of magnetic disturbances in mobile robot localization
1869	Péter Mogyorosi and Sándor Szénási	GPU Database for Large Geospatial Datasets

3729	Mohammed Mudabbiruddin and Mosavi Amir	Machine Learning and Mathematical Models for Prediction of Structural Aging Process
7042	Tamás Zoltán Zakota, Zoltan Zakota and József Fogarasi	On the Possibility of Using Tree Inventories in Forecasting Pollen Caused Allergic Symptoms in Hungary, Based on Data of Szeged and Miskolc

10:40 – 12:00 [T2c] e-poster Session on Systems Engineering II

Room K2 Amphitheater

Session chair: Amir Mosavi

655	Ibrahim Ahmed and Lucian Mihet-Popa	Model Predictive Control of a Packed-U-cells inverter with PV, Boost and Bidirectional Rectifier for Solid-State Transformers
883	Attila Jancsi and Dániel Kiss	Parameter optimization of a cellular automaton model in distributed environment
3333	Sina Ardabili, Amir Mosavi and Imre Felde	Machine Learning in Heat Transfer: Taxonomy, Review and Evaluation
3381	Zsuzsanna Molnár and Dániel Kiss	Constellation recognition on digital images
6972	Firan Darius-Ovidiu, Haisiuc Andrei-Cristian, Hedes Ioan-Alexandru, Stangaciu Cristina and Nimara Sergiu	Bluetooth Sensor Modules for Monitoring Indoor Ambient
9132	Mahdi Taleb, Bahador Fani, Ghazanfar Shahgholian, Amir Mosavi and Arman Fathollahi	Maintaining Fuse in the Presence of Distributed Generation Sources in the Distribution Network to Improve Protection System
9274	Gréta Gonda and Gábor Kertész	Birth time prediction based on uterus-activity using machine learning
9924	Sayed Mohammad Ali Zanjani, Majid Moazzami, Mohammad Amin Honarvar, Amir Mosavi and Arman Fathollahi	Study and Simulation of Wind Farms Based on Squirrel Cage Induction Generator in Electrical Distribution System
8975	Barnabás Erdei and Sándor Szénási	Procedural City Generation
9441	Barnabás Rőczy and Sándor Szénási	Automated Moderation Helper System Using Artificial Intelligence Based Text Classification and Recommender System Techniques
5995	Codruta Mihaela Ancuti, Alin Ilie Stingu, Sorin Musuroi and Cristian Vasile Lascu	Novel EIGHT-SWITCH Power Factor Correction Converter Scheme Allowig Bidirectional Power Flow

12:30 – 14:00 Lunch

CP1

14:00 – 15:00 [T3a] Special Session on PhD Student Research in Applied Informatics and Numerical Mathematics IV**Auditorium**

Session organizer and chair: László Horváth

7486	Dominik Csík, Peter Sarcevic, Richard Pesti and Ákos Odry	Comparison of different radio communication-based technologies for indoor localization using trilateration
9173	Richard Pesti, Peter Sarcevic, Dominik Csík and Ákos Odry	Particle swarm optimization aided calibration of sensor installation errors for MEMS accelerometers
9491	Borbála Gergics, Flóra Vajda, Alex Ládi, András Füredi and Dániel András Drexler	Pharmacodynamics modeling based on in vitro 3D cell culture experiments
5737	Bertalan Beszédes	Human Circadian Rhythm Friendly Adaptive Spectrum Wake-up Clock Lighting

14:00 – 14:40 [T3b] Special session on Digitalisation, Generation Research, Consumer Trends II**Room K1 Amphitheater**

Session organizers and chairs: Mónika Garai-Fodor, Ágnes Csiszárík-Kocsir and János Varga

5025	Yue Wu and Katalin Takács-György	What is stopping agriculture 4.0?---Examples from China
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4764	Márta Péntek, János Tibor Czere, Zsombor Zrubka, Tamás Haidegger, Levente Kovács and László Gulácsi	EQ-5D studies in robotic surgery: a mini-review
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14:00 – 15:00 [T3c] e-poster session on Computational Intelligence and Intelligent Mechatronics**Room K2 Amphitheater**

Session chair: Iosif Szeidert

3883	Bahram Choubin, Omid Rahmati, Seyed Masoud Soleimanpour, Samad Shadfar, Ahmad Najafi Igdir and Amir Mosavi	The Most Important Hydro-Environmental Drivers Affecting Gully Erosion Occurrence Through Wrapper Methods
4763	Maria Brad, Ana Brad and Mihai Micea	Method for Autonomous Lane Detection in Assisted Driving
5148	Raul Robu, Paul Arseni-Ailoi and Dan Ungureanu-Anghel	Using Weka API for creating a custom classification application
2871	Ioan Filip, Iosif Szeidert, Cristian Vasar, Octavian Prostean and Dorin Bordeasu	Tuning of a minimum variance control system based on the estimated process gain

5134	Milad Taheri, Ghazanfar Shahgholian, Bahador Fani, Amir Mosavi, Arman Fathollahi and Imre Felde	Protection Methodology for Supporting Distributed Generations with Respect to Transient Instability
8685	Mansoor Zeinali, Sayed Mohammadali Zanjani, Somaye Yaghoubi, Amir Mosavi and Arman Fathollahi	Torque Control in a Two-Mass Resonant System: Simulation and Dynamic Analysis
1001	Cristian Avramescu, Andrei Tenescu, Bogdan Bercean and Marius Marcu	Bounding Box Information Benefits Lung Pathology Classification in Pulmonary X-Rays

15:00 – 16:40 [T4] Session on Computational Intelligence III

via Teams only - You can join via Teams: bit.ly/SACI2023_Teams_link (EEST time zone)

Session chair: Voicu Groza

1508	Henrik Varga, Attila Kiss and Zoltán Kolarovszki	Benchmarking Photonic Quantum Machine Learning Simulators
1818	Diana Aghabalyan, Hamzeh Ghorbani and Rituraj Rituraj	Relationship of Medicine and Philosophy: Mathematical Modeling of Moral Structures-Etometry
2163	Anischal Kumar, Niklesh Kumar, Shahil Kumar, Voicu Groza, Mansour Assaf and Rahul Kumar	Comparative Analysis of Machine Learning Techniques for Bearing Fault Classification in Rotating Machinery
3094	Karen Dsouza, Lin Zhu, Pratibha Varma-Nelson, Shiao-fen Fang and Snehasis Mukhopadhyay	AI-Augmented Peer Led Team Learning for STEM Education
3923	Mehran Amini, Miklos F. Hatwagner and Laszlo T. Koczy	Machine learning and fuzzy cognitive maps in a hybrid approach toward freeway on-ramp traffic control

16:40 – 17:40 [T5] Session on Intelligent Robotics II

via Teams only - You can join via Teams: bit.ly/SACI2023_Teams_link (EEST time zone)

Session chair: Tamás Haidegger

2709	Marianna Dimitrova Kucarov, Mátyás Takács, Bela Molnar and Miklos Kozlovsky	Automatic Calibration of Robotic Arm for Workstation Installation in Changing Environment - Comparison of Manual, Mechanic, and Automatic Calibration
4112	Miklós Vincze, Csaba Sántics, Miklós Kozlovsky and Tamás Haidegger	Application of 3D Multi-User Software Tools in Digital Medicine – a Scoping Review
6582	József Kuti and Péter Galambos	Revitalizing KUKA youBot project for Research and Educational purposes: Architecture of a new C++ driver

18:00 Banquet

Restorant Universitar (address: Aleea FC Ripensia no. 1)

May 26 (Friday)

Today's presentations are via Teams only

You can join via Teams: bit.ly/SACI2023_Teams_link (EEST time zone)

8:00 – 10:00 [F1] Session on Informatics III

Session chair: Alexandru Topîrceanu

1424	Peter Krammer, Marcel Kvassay, Ondrej Habala, Ján Mojžiš, Ladislav Hluchý, Ľuboš Pavlov and Ľuboš Skurčák	Refinement of an Environmental Pollution Model for the Needs of the Electric Power Industry by Addition of Precipitation Attributes
2393	Benjamin van Oostendorp	Object Detectors as Input for Reinforcement Learning Agents
2892	Jean Rosemond Dora, Ladislav Hluchý and Jean Rosemond Dora	Detection of Attacks in Software-Defined Networks (SDN)
3681	Mircea Trifan, Bogdan Ionescu and Dan Ionescu	A Combined Finite State Machine and PlantUML Approach to Machine Learning Applications
4041	Ondrej Habala, Martin Bobak, Martin Šeleng and Ladislav Hluchy	Transformation of a Legacy Airport Meteorology Application into a Serverless Cloud Application
4410	Andrea Tick	Evaluation of Industry 4.0 familiarity at SMEs in Central-Eastern Europe using Machine Learning Algorithms

10:00 – 12:00 [F2] Session on Systems Engineering III

Session chair: Tibor Wüthrl

133	Árpád Rigó and Balázs Tusor	Options Evaluator With An Artificial Intelligence-based Volatility Model
2125	David Holecska and Adrienn Dineva	Towards Sustainable Energy Management: Analyzing AI-Based Solutions for PV Systems with Battery in Energy Communities
2682	Xinyan Jiang and István Bíró	The effects of shoes with a triple density midsole on lower limb kinematics and kinetics in male recreational runners
3022	Marcell Csaba Sárkány and András Kovács	Timetable generator and optimizer for Hungarian university students
3638	Péter János Varga, Dávid Óhegyi, Sándor Gyányi and Tibor Wüthrl	Optical network problems in 5G Radio Access Networks
5054	Bence Hodák and Elemér Balázs	Carpentry software designing and development with pane cutting optimization functionality

12:00 – 13:00 [F3] Session on Intelligent Manufacturing Systems

Session chair: Iosif Szeidert

2366	Sarvenaz Sharifi, Danial Navabi and Amir Mosavi	Translucent Concrete: Comprehensive Review of Concepts, Recent Technologies and Advances in Light Transmitting Concrete
3588	Emil Gatial, Zoltán Balogh, Sepideh Hassankhani Dolatabadi, Hatem Ghorbel, Stefano Carrino, Jonathan Dreyer, Vicente Rodríguez Montequín, Adrian Gligor and Laszlo Barna Iantovics	Auction-based Job Scheduling for Smart Manufacturing
8304	Majid Dehghani, Mohammad Reza Yousefi, Amir Mosavi and Arman Fathollahi	Unified Power Flow Controller: Operation, Modelling and Applications

12:00 – 13:00 Lunch

CP1

13:00 – 15:00 [F4] Session on Informatics IV

Session chair: Mihaela Codruta Ancuti

4651	Michal Staňo, Ladislav Hluchý, Martin Bobák, Peter Krammer and Viet Tran	Federated Learning Methods for Analytics of Big and Sensitive Distributed Data and Survey
5717	Sina Ardabili, Amir Mosavi and Imre Felde	Deep learning for 5G and 6G
6102	Radu-Iulian Gheorghica	An Algorithm for Concurrent Use of Quantum Simulators and Computers in the Context of Subgraph Isomorphism
7033	Éva Hegedűs and Andrea Tick	Digitalization, Extended Reality and Artificial Intelligence in Explosive Ordnance Risk Education
7401	Bahram Choubin, Abolfazl Jaafari, Jalal Henareh, Farzaneh Sajedi Hosseini and Amir Mosavi	Averaged Neural Network Integrated with Recursive Feature Elimination for Flood Hazard Assessment
8709	Mahsa Dehghan Manshadi, Milad Mousavi, Arian Golzarian, Madjid Soltani, Pascale Maul and Amir Mosavi	Colorectal Polyp Localization: From Image Restoration to Real-time Detection with Deep Learning

15:00 – 17:00 [F5] Session on Systems Engineering IV

Session chair: Adrienn Dineva

5071	Róbert Mészáros and Szabolcs Sergyán	Lane detection and traffic sign recognition
7161	Gergely Kún and Wühl Tibor	Classification of Communication Interfaces in Railway Systems
7351	Ámon Kiss and András Kovács	Food recognition using neural network on mobile device
7495	Krisztofer Szabaszián Molnár and Szabolcs Sergyán	Random and shortest path generation for running or walking purposes
7301	Tibor Wühl	Simulation of Digital Signal Processing algorithms in time domain
8262	Adrienn Dineva	Advances in Lithium-Ion Battery Management through Deep Learning Techniques: A Performance Analysis of State-of-Charge Prediction at Various Loads Conditions

17:00 – 19:00 [F6] Session on Computational Intelligence, Intelligent Mechatronics and Systems Engineering

Session chair: Mohammed Faeik Ruzajj Al-Okby

7980	Robert Zsolt Szabo, Gábor Orosz, Tamás Ungi, Colton Barr, Chris Yeung, Roland Incze, Gábor Fichtinger, János Gál and Tamás Haidegger	Automation of lung ultrasound imaging and image processing for bedside diagnostic examinations
8686	László Lindenmaier, Balázs Czibere, Szilárd Aradi and Tamás Bécsi	A Runtime-Efficient Multi-Object Tracking Approach for Automotive Perception Systems
1904	Paul Tota, Mircea-Florin Vaida, Romulus-Mircea Terebes, Gelu-Ovidiu Tirian and Sebastian-Daniel Maris	Mesh Network with Telepresence Robots for Advertising
5831	Delia Moga and Ioan Filip	Automotive Scenarios for Trajectory Tracking using Machine Learning Techniques and Image Processing
5834	Olivér Balogh and Zoltán Vámosy	Solving Jigsaw Puzzles Using Computer Vision and Curve Similarity Measures
145	Mohammed Faeik Ruzajj Al-Okby, Thomas Roddelkopf, Hartmut Ewald and Kerstin Thurow	Testing and Integration of Commercial Hydrogen Sensor for Ambient Monitoring Application

Thank you for your contribution!
See you at SACI 2024!