

	ROOM B	ROOM C	ROOM D
Morning sessions	Computational Physics Chair Bartłomiej J. Spisak	Modeling, Segmentation, Recognition Chair Kálmán Palágyi	Information Technology I Chair Tomasz Szumlak
10:00 - 10:30	Kamil Deja, Tomasz Trzcíński, Łukasz Graczykowski Generative Models for Fast Cluster Simulations in the TPC for the ALICE Experiment	Melinda Katona, Tünde Tókécs, Emília Rita Szabó, Szilvia Brunner, Imre Zoltán Szabó, Róbert Polanek, Katalin Hideghéty, László G. Nyul Automatic Segmentation and Quantitative Analysis of Irradiated Zebrafish Embryos	Stanisław Kozdrowski, Sławomir Sujecki Integer Programming Based Optimization of Optical Node Architectures
10:30 - 11:00	Anna Kołodziej, Aleksandra Weselucha-Birczyńska, Paulina Moskal, Ewa Stodolak-Zych, Maria Dużyja, Elżbieta Długoń, Julia Sacharż, Marta Błażewicz 2D-Raman Correlation spectroscopy recognizes the interaction at the carbon coating and albumin interface	Mohan Jayatilake, Teresa Goncalves, Luis Rato Classification of breast lesions using quantitative dynamic contrast enhanced-MRI	Eva Rakovská, Miroslav Hudec Two approaches for the computational model for software usability in practice
11:00 - 11:30	Karol Kulinowski, Maciej Wołoszyn, Bartłomiej J. Spisak Effect of elastic and inelastic scattering on electronic transport in open systems	Ivona Tautkute, Tomasz Trzcíński, Adam Bielski Recognizing Emotions with EmotionalDAN	Łukasz Dragan, Anna Wróblewska Content-based recommendations in an e-commerce platform
11:30 - 12:00	Damian Kołaczek, Bartłomiej Spisak, Maciej Wołoszyn Phase-space approach to time evolution of quantum states in confined systems. The spectral split-operator method	Alberto Arturo Vergani, Samuele Martinelli, Elisabetta Binaghi Clustering functional MRI Patterns with Fuzzy and Competitive Algorithms	Marcin Kowalik, Waldemar Tokarz, Andrzej Kołodziejczyk, Marek Giebułtowski, Ryszard Zalecki, Wiesław Marek Woch Analysis of dynamic susceptibility superconducting transition by means of neural network

3.07.2018

	ROOM B	ROOM C	ROOM D
Afternoon sessions	Data Analysis and Systems Research I Chair Istvan Harmáti	Tomography Chair Fabio Bracci	Computational Intelligence Chair Ferenc Lilik
16:30 - 17:00	Tomasz Trzcíński, Łukasz Graczykowski, Michał Glinka Using Random Forest Classifier for particle identification in the ALICE Experiment	László Varga Multimaterial Tomography: Reconstruction from Decomposed Projection Sets	Piotr A. Kowalski, Szymon Łukasik, Małgorzata Charytanowicz, Piotr Kulczycki Optimizing Clustering with Cuttlefish Algorithm
17:00 - 17:30	Artur Maździarz Fault Propagation Models Generation in Mobile Telecommunication Networks based on Bayesian Networks with Principal Component Analysis Filtering	Gábor Lékó, Péter Bálažs Sequential Projection Selection Methods for Binary Tomography	Boldizsár Túú-Szabó, Péter Földesi, László T. Kóczy A Memetic version of the Bacterial Evolutionary Algorithm for discrete optimization problems
17:30 - 18:00	Sławomir Sujecki An efficient model for steady state numerical analysis of erbium doped fluoride glass fiber lasers	Judit Szűcs, Péter Bálažs Variants of Simulated Annealing for Strip Constrained Binary Tomography	Yevgeniy Bodyanskiy, Oleksii Tyshchenko A Hybrid Cascade Neural Network with Ensembles of Extended Neo-Fuzzy Neurons and its Deep Learning

	ROOM B	ROOM C	ROOM D
Morning sessions	Applied Mathematics I Chair Tomáš Bacigál	Discrete Geometry and Topology Chair Péter Bálažs	Computer Vision Chair Jacek Tarasiuk
10:00 - 10:30	Ol'ga Nánásiová, Viera Čerňanová, Lubica Valášková Probability Measures and projections on Quantum Logics	Kálman Palágyi, Gábor Németh Endpoint-Based Thinning with Designating Safe Skeletal Points	Mária Zdímalová, Tomáš Bohumel, Katerína Plachá-Gregorovská, Peter Weismann, Hisham El Falougy Graph Cutting in Image Processing handling with Biological Data Analysis
10:30 - 11:00	Jana Kalická, Mária Minárová, Jaroslav Halvoník, Lucia Majtánová Statistical analysis of models' reliability for punching resistance assessment	Péter Kardos, Kálmán Palágyi Maximal P-simple Sets on (8,4) Pictures	Piotr Nowakowski, Julian Myrcha, Tomasz Trzcziński, Łukasz Graczykowski, Przemysław Rokita Comparison of 3D graphics engines for particle track visualization in the ALICE Experiment
11:00 - 11:30	Grzegorz Sikora Statistical test for fractional Brownian motion based on detrending moving average algorithm	László Kudela, Stefan Kollmannsberger, Ernst Rank An immersed boundary approach for the numerical analysis of objects represented by oriented point clouds	Jakub Kamiński, Adrian Wit, Krzysztof Janc, Jacek Tarasiuk A methodology for trabecular bone microstructure modelling agreed with three-dimensional bone properties
11:30 - 12:00	David Coufal On persistence of convergence of kernel density estimates in particle filtering	Josef Slapal Structuring digital spaces by closure operators associated to n-ary relations in a Galois connection	Sergii Nikolaiev, Sergii Telenyk, Yury Tymoshenko Human stress detection using non-contact remote photoplethysmography from video stream

4.07.2018

	ROOM B	ROOM C	ROOM D
Afternoon sessions	Fuzzy Logic Chair László T. Kóczy	Machine Learning Chair Josef Slapal	Data Analysis and Systems Research II Chair Piotr Malecki
16:30 - 17:00	Ferenc Lilik, Levente Solecki, Brigita Sziová László T. Kóczy, Szilvia Nagy On wavelet based enhancing possibilities of fuzzy classification of measurement results	Fabio Bracci, Mo Li, Ingo Kossyk, Zoltan-Csaba Marton Applicability of Deep Learned vs Traditional Features for Depth Based Classification	Małgorzata Charytanowicz, Piotr Kulczycki, Szymon Łukasik, Piotr A. Kowalski Image enhancement with applications in biomedical processing
17:00 - 17:30	Istvan Harmáti, László T. Kóczy On the Convergence of Fuzzy Grey Cognitive Maps	Md Obaidullah Sk, Sajib Ahmed, Teresa Goncalves Effect of image view for mammogram mass classification - an extreme learning based approach	Szymon Łukasik, Konrad Lalik, Piotr Sarna, Piotr A. Kowalski, Małgorzata Charytanowicz, Piotr Kulczycki Efficient Astronomical Data Condensation using Approximate Nearest Neighbors
17:30 - 18:00	Kata Vöröskői, Gergő Fogarasi, Adrienn Buruzs, Péter Földesi, László T. Kóczy Hierarchical fuzzy decision support methodology for packaging system design	Marcin Studniarski, Liudmila Kolechkina, Elena Dvernaya Solving a combinatorial multiobjective optimization problem by genetic algorithm	Grzegorz Gołaszewski Similarity-based outlier detection in multiple time series

	ROOM B	ROOM C	ROOM D
Morning sessions	Applied Mathematics II Chair Ol'ga Nánásiová	Image Analysis Chair László Kudela	Intelligent Data Analysis Chair Joanna Chwiej
10:00 - 10:30	Tomáš Bacigál, Magdalena Komorníková, Jozef Komorník Multidimensional copula models of dependencies between selected international financial market indexes	Karol Piaskowski, Dominik Belter Fast Object Detector based on Convolutional Neural Networks	Oleksandr Provotar Credibility of Fuzzy Knowledge
10:30 - 11:00	Adam Šeliga New Types of Decomposition Integrals and Computational Algorithms	Dariusz Pojda, Agnieszka Anna Tomaka, Leszek Luchowski, Krzysztof Skabek, Michał Tarnawski Applying computational geometry to designing an occlusal splint	Md Obaidullah Sk, Sajib Ahmed, Teresa Goncalves, Luis Rato RMID: a novel and efficient image descriptor for mammogram mass classification
11:00 - 11:30	Dominika Ballová Trend analysis and detection of change-points of selected financial and market indices	Hussein Alhamzawi, Fazekas Attila Assessment of Patients Emotional Status According To Iris Movement	Himadri Mukherjee, Md Obaidullah Sk, Santosh KC, Teresa Goncalves, Santanu Phadikar, Kaushik Roy Instrumentals/songs separation for background music removal
11:30 - 12:00	Karl Javorszky Picturing Order	Dominik Horwat, Marek Krośnicki Computer-aided diagnosis system for lumbar spinal stenosis detection in MRI based on radiological criteria	Tomasz Rybotycki Modern metaheuristics in physical processes optimization

5.07.2018

	ROOM B	ROOM C	ROOM D
Afternoon sessions	Information Technology II Chair Piotr A. Kowalski	From Theory to Applications (SKYPE) Chair Szymon Łukasik	Early Stage Researchers Chair Małgorzata Charytanowicz
16:30 - 17:00	Joanna Świebocka-Więk Comparative analysis of segmentation methods and extracting heart features in Cardiovascular MRI	Yashbir Singh, Deepa S, Shi Yi Wu, João Manuel R. S. Tavares, Michael Friebe, Weichih Hu Effect of left ventricular longitudinal axis variation in pathological hearts using Deep learning	Przemysław Juszczyk, Lech Kruś Crisp vs Fuzzy Decision Support Systems for the Forex Market
17:00 - 17:30	Jan Piesik, Emilian Piesik A method of Functional Test interval selection with regards to Machinery and Economical aspects	Nilanjana Dutta Roy, Arindam Biswas Finding Graph from Retinal Vascular Network for Image Verification	Jacek Chmielewski Neural network and dynamic programming for R&D sector development in Poland
17:30 - 18:00		Pawan Kumar Patnaik, Venkata Padmavati Metta, Jyoti Singh, D.G. Thomas Pure Hexagonal Context-Free Grammars Generating Hexagonal Patterns	Maciej Wielgosz, Andrzej Skoczeń Recurrent Neural Networks with grid data quantization for modeling LHC superconducting magnets behavior
		Juan Camilo Calvera Duran, Octavio José Salcedo Parra, Carlos Enrique Montenegro Marin Design of a haptic exoskeleton for the hand with IoT	