

Friday November 11, 2022

14:00-14:20	Coffee and opening (T214)		
	T210	T211	T212
14:20-14:40	Vladislav Belov <i>Manifold Learning Projection Quality Quantitative Evaluation</i>	Jakub Kořenek <i>Detection of Higher Order Dependencies in Complex Systems</i>	Aleš Wodecki <i>Numerická optimalizace Dirichletovy okrajové podmínky pro problém fázového pole s aplikací na růst krystalu</i>
14:45-15:05	Marek Dědič <i>Scalable Graph Size Reduction</i>	František Gašpar <i>Stochastic Modelling of Fractal Diffusion and Dimension Estimation</i>	Pavel Eichler <i>Non-newtonian Turbulent Fluid Flow Simulations through Aortic Phantom Using Cumulant Lattice Boltzmann Method</i>
15:10-15:30	Václav Košík <i>Non-augmented Neural Networks Robust to Rotation</i>	Marko Ruman <i>Learning State Correspondence of Reinforcement Learning Tasks for Knowledge Transfer</i>	Jiří Minarčík <i>Nondegenerate Homotopy and Geometric Flows</i>
15:30-16:00	Coffee (T214)		
16:00-16:20	Martin Flusser <i>Efficient Anomaly Detection Through Surrogate Neural Networks</i>	Antonie Brožová <i>Tools for Understanding Deep Blind Image Deconvolution</i>	Kateřina Škardová <i>Combining Machine Learning and Mathematical Modeling in Estimation of t_1 Relaxation Time from Cardiac Magnetic Resonance Imaging Data</i>
16:25-16:45	Jiří Fejlek <i>Computation of Feedback Control Laws Based on Switched Tracking of Demonstrations</i>	Zdeněk Junek <i>Sparsity Techniques in Equation Learning</i>	Martin Jex <i>An Improved Branch and Bound Algorithm for Phase Stability Testing of Multicomponent Mixtures</i>

Friday November 25, 2022

14:00-14:20	Coffee and opening (T214)	
	T211	T212
14:20-14:40	Jaroslav Kňap <i>De Sitter Group in Cosmology</i>	Tomáš Kerepecký <i>Dual-Cycle: Self-Supervised Dual-View Fluorescence Microscopy Image Reconstruction using CycleGAN</i>
14:45-15:05	Ondřej Kubů <i>New Classes of Quadratically Integrable Systems in Magnetic Fields: The Generalized Cylindrical and Spherical Cases</i>	Hazal Yurtbak <i>Burgers'-Type Equation as a Model of Reaction-Diffusion Pattern Formation</i>
15:10-15:30	Stanislav Skoupý <i>Quantum Walk Search and State Transfer with Fully Connected Vertices</i>	Juraj Kováč <i>Liouville-Green Approximation for Linearly Coupled Systems: Asymptotic Analysis with Applications to Reaction-Diffusion Systems</i>
15:30-16:00	Coffee (T214)	
16:00-16:20	Martin Malachov <i>Analogue of Mandelbrot Set in Quantum Purification Protocols with Higher Degree</i>	Petr Gális <i>Mathematical Modeling of the Multicomponent Flow in Porous Media Using Higher-Order Methods</i>
16:25-16:45	Jana Lepšová <i>A Fibonacci's Complement Numeration System</i>	Veronika Lipovská <i>Evolutionary Equilibria in the Oligopolistic Market Respecting the Cost of Change</i>
16:50-17:10	Hanka Řada <i>Matrix Form of Multidimensional Continued Fractions</i>	Radovan Zeman <i>Non-equilibrium Strain Induces Hysteresis and Anisotropy in the Quasi-Static and Dynamic Elastic Behavior of Sandstones: Theory and Experiment</i>