

CSP 2015 Program

Monday, Sept. 28, 2015

8:30-9:10	Registration	
9:10-9:30	CSP 2015 Opening Aula	
9:30-10:30	Plenary talk 1 (Chair: <i>Lech Polkowski</i>) Aula <i>Professor Andrzej Skowron</i> <i>Rough Sets in Interactive Granular Computing</i>	
10:30-10:50	Coffee break	
10:50-12:30	Rough and Granular Comp. I 126 Chair: <i>Andrzej Skowron</i>	Data Mining and Appl. I 127 Chair: <i>Mikhail Moshkov</i>
	Betweenness, Łukasiewicz rough inclusions, Euclidean representations in information systems, hyper-granules, conflict resolution, <i>Lech Polkowski</i>	An Approach to Ambiguity Resolution for Ontology Population, <i>Natalia Garanina and Elena Sidorova</i>
	Core for Large Datasets: Rough Sets on FPGA, <i>Maciej Kopczyński, Tomasz Grześ, and Jarosław Stepaniuk</i>	Dynamic Programming Approach for Construction of Association Rule Systems, <i>Fawaz Alsolami, Talha Amin, Igor Chikalov, Mikhail Moshkov, and Beata Zielosko</i>
	Exploration of knowledge bases inspired by Rough Set Theory, <i>Agnieszka Nowak - Brzezińska and Alicja Wakulicz-Deja</i>	Comparison of Heuristics for Optimization of Association Rules, <i>Fawaz Alsolami, Talha Amin, Mikhail Moshkov, and Beata Zielosko</i>
	Lattice theory for rough sets - an experiment in Mizar, <i>Adam Grabowski</i>	The method for describing changes in the perception of stenosis in blood vessels caused by an additional drug,

		<i>Sylvia Buregwa-Czuma, Jan G. Bazan, Lech Zaręba, Stanisława Bazan-Socha, Przemysław W. Pardel, Barbara Sokołowska, and Lukasz Dydo</i>
	Information systems and soft sets, <i>Marek Pałasiński and Zofia Machnicka</i>	Application of genetic algorithms and high-performance computing to the Traffic Signal Setting problem, <i>Paweł Góra and Przemysław Pardel</i>
12:30-14:00	Lunch	
14:00-15:40	Logic and Probability in Theory of Computing I 126 Chair: <i>Bożena Woźna-Szcześniak</i>	Data Mining and Appl. II 127 Chair: <i>Gabriela Lindeman-von Trzebiatowski</i>
	Gained and excluded classified actions by dynamic security policies, <i>Damas Gruska</i>	Knowledge Pit - A Data Challenge Platform, <i>Andrzej Janusz, Dominik Ślęzak, Sebastian Stawicki, and Mariusz Rosiak</i>
	Monitoring with Data Parametrized Extended Life Sequence Charts, <i>Ming Chai and Holger Schlingloff</i>	Toward Synchronization of EEG and Eye-tracking Data Using an Expert System, <i>Bolesław Jaskuła, Krzysztof Pancierz and Jarosław Szkoła</i>
	Specifying Functional Programs with Intuitionistic First Order Logic, <i>Marcin Benke</i>	Data Integration through Clustering and Finding Statistical Relations - Validation of Approach, <i>Marek Jaszuk, Teresa Mroczek and Barbara Fryc</i>
	Designing reliable communication for heterogeneous computer systems, <i>Miroslaw Hajder, Janusz Kolbusz, and Roman Korostenskyi</i>	Instance-Level Constraints in Density-Based Clustering, <i>Piotr Lasek</i>
	ExpTime Tableaux with Global	Estimation and feature selection

	Caching for Graded Propositional Dynamic Logic, <i>Linh Anh Nguyen</i>	by application of knowledge mined from decision rules models, <i>Wiesław Paja and Krzysztof Pancerz</i>
19:00-22:00	Gala dinner	

Tuesday, Sept. 29, 2015

9:00-10:00	Plenary talk 2 (Chair: <i>Ludwik Czaja</i>) Aula	
	<i>Professor Louchka Popova – Zeugmann</i> <i>Time and Concurrency - Three Approaches for Intertwining Time and Petri Nets</i>	
10:00-11:00	Concurrency I 126 Chair: <i>Louchka Popova-Zeugmann</i>	Rough and Granular Comp. II 127 Chair: <i>Jan Bazan</i>
	Remarks on Memory Consistency Description, <i>Ludwik Czaja</i>	Evaluation of Decision Table Decomposition Using Dynamic Programming Classifiers, <i>Michał Mańkowski, Tadeusz Łuba, and Cezary Jankowski</i>
	Considering Concurrency in Early Spacecraft Design Studies, <i>Jafar Akhundov, Peter Tröger, and Matthias Werner</i>	Rough sets inspired forward inference algorithm, <i>Roman Simiński and Alicja Wakulicz-Deja</i>
	Complexity Studies for Safe and Fan-Bounded Elementary Hornets, <i>Michael Köhler-Bußmeier and Frank Heitmann</i>	Reduct calculation and discretization of numeric attributes in sparse decision systems, <i>Wojciech Świeboda and Hung Son Nguyen</i>
11:00-11:20	Coffee break	
11:20-12:20	Logic and Probability in Theory of Computing II 126 Chair: <i>Holger Schlingloff</i>	Fuzzy Computing I 127 Chair: <i>Piotr Wasilewski</i>

	An efficient equivalence-checking algorithm for a model of programs with commutative and absorptive statements, <i>Vladislav Podymov</i>	Dialogue in Hierarchical Learning of a Concept using Prototypes and Counterexamples, <i>Soma Dutta and Piotr Wasilewski</i>
	The Minimization Method of Boolean Functions in Polynomial Set-theoretical Format, <i>Bohdan Rytsar</i>	Fuzzy Systems of Logical Inference and Their Applications, <i>Oleksandr Provotar</i>
	SMT-based searching for k-quasi-optimal runs in weighted timed automata, <i>Bożena Woźna-Szcześniak, Agnieszka Zbrzeźny, and Andrzej Zbrzeźny</i>	Optimization of Backward Fuzzy Reasoning Based on Rule Knowledge, <i>Zbigniew Suraj, Piotr Grochowalski, and Sibasis Bandyopadhyay</i>
12:20-14:00	Lunch	
14:00	Guided tour	

Wednesday, Sept. 30, 2015

9:00-10:00	Plenary talk 3 (Chair: <i>Jarosław Stepaniuk</i>) Aula <i>Professor Mikhail Moshkov</i> <i>Dynamic Programming Approach for Study of Decision Trees</i>	
10:00-11:00	Unconventional Computing Models I 126 Chair: <i>Damas Gruska</i>	Data Mining and Appl. III 127 Chair: <i>Natalia Garanina</i>
	Petri Net Models of Simple Rule-Based Systems for Programming Physarum Machines, <i>Andrew Schumann and Krzysztof Pancierz</i>	The handling of missing values in medical domains with respect to pattern mining algorithms, <i>Danilo Schmidt, Matthias Niemann, and Gabriela Lindemann – von Trzebiatowski</i>
	Specialized Predictor for Reaction Systems with Context	Global Optimization of Exact Association Rules Relative to

	Properties, <i>Roberto Barbuti, Roberta Gori, Francesca Levi, and Paolo Milazzo</i>	Length, <i>Beata Zielosko</i>
	Outliers Elimination for Error Correction Algorithm Improvement, <i>Janusz Kolbusz and Paweł Różycki</i>	An approach for resolving conflicts in automatic medical objects classification, <i>Przemysław W. Pardel, Jan G. Bazan, Jacek Zarychta, and Stanisława Bazan-Socha</i>
11:00-11:20	Coffee break	
11:20-12:20	Concurrency II 126 Chair: <i>Matthias Werner</i>	Data Mining and Appl. IV 127 Chair: <i>Beata Zielosko</i>
	Controlling Petri Net Behavior Using Time Constraints, <i>Irina Lomazova and Louchka Popova-Zeugmann</i>	Selected methods of combining classifiers, when predictions are stored in probability vectors, in a dispersed decision-making system, <i>Małgorzata Przybyła-Kasperek</i>
	On Decidability of Persistence Notions, <i>Kamila Barylska and Łukasz Mikulski</i>	Detecting hazardous events from sequential data with multilayer architectures, <i>Karol Kurach and Krzysztof Pawłowski</i>
	Space-Time Viewpoints for Concurrent Processes Represented by Relational Structures, <i>Irina Virbitskaite, Elena Bozhenkova, and Evgeny Erofeev</i>	Exploiters-Based Knowledge Extraction in Object-Oriented Knowledge Representation, <i>Dmytro Terletsykyi</i>
12:20-14:00	Lunch	
14:00-15:00	Unconventional Computing 126 Models II Chair: <i>Roberta Gori</i>	Fuzzy Computing II 127 Chair: <i>Oleksandr Provotar</i>
	Sequential P Systems with Active Membranes Working on Sets, <i>Michal Kovac and Damas Gruska</i>	From free will debate to embodiment of fuzzy logic into washing machines: On fuzzy and

		rough sets approaches to vagueness modeling, <i>Piotr Wasilewski</i>
	Hybrid Planning by Combining SMT and Simulated Annealing, <i>Jarosław Skaruz, Artur Niewiadomski, and Wojciech Penczek</i>	Inverted Fuzzy Implications in Backward Reasoning Without Yager Implication, <i>Zbigniew Suraj and Agnieszka Lasek</i>
	Enhanced Error Correction Algorithm for RBF Neural Networks, <i>Paweł Różycki and Janusz Kolbusz</i>	
15:15	Closing 	