Applications of Algebra in Logic and Computer Science XXIII, Zakopane, March 11–17, 2019
Zastosowania Algebry w Logice i Informatyce, XXIII edycja, Zakopane, 11–17 marca 2019 r.

Organizator: Zakład Logiki, Metodologii i Epistemologii; Instytut Filozofii; Wydział Filologiczno-Historyczny; Uniwersytet im. J. Długosza w Częstochowie

TUESDAY, MARCH 12TH

Morning session

9:50	Opening
10:00	Anna Romanowska (Warsaw University of Technology, Poland), *Convex Sets and Barycentric Algebras*
10:45	Wojciech Dzik (University of Silesia in Katowice, Poland), *Applications of Unification in Intuitionistic Predicate Logic and its extensions*
11:30	Coffee break
12:00	Janusz Czelakowski (University of Opole, Poland), *The Lattice of Equational Theories of Two-Element Algebras*
12:30	Janusz Kaczmarek (University of Łódz, Poland), *Theory of Situations in Hybrid Topological Lattices*

Afternoon session

16:00	Katarzyna Matczak (Warsaw University of Technology, Poland), *Finitely Generated Dydadic Convex Sets*
16:30	Anna Mucka (Warsaw University of Technology, Poland), *Duality for Convex Polytopes*
17:00	Coffee break
17:30	Adam Komorowski (Warsaw University of Technology, Poland), *Beyond Barycentric Algebras*
18:00	Adam Morawiec (University of Wrocław, Poland), *Constructive approach to Polp = Polç*
18:30	Tomasz Witczak (University of Silesia in Katowice, Poland), *Intuitionistic Neighborhood Frames and Topological Spaces*

WEDNESDAY, MARCH 13TH

Morning session

9:30	David Miller (The University of Warwick, England), *Autonomous Axioms for Metrics and Measures*
10:15	Wiesław Kubis (Czech Academy of Sciences, Czech Republic), *Automorphism Groups of Homogeneous Structures*
11:00	Coffee break
11:30	Jan Paseka (Masaryk University, Brno, Czech Republic), *Categoric Simulation of Production Flows*
12:15	Edouard Wagneur (GERAD, Montreal, Canada), *Embedding Idempotent Semimodules*
20:00	Conference dinner

THURSDAY, MARCH 14TH

Afternoon session

15:15	Raja Natarajan (Tata Institute of Fundamental Research, India), *Solving Boolean Equations on Set-valued Variables*
16:00	Zofia Kostrzycka (Opole University of Technology, Poland) and Marek Zaionc (Jagiellonian University in Kraków, Poland), *Quantitative study of Fuzzy Logics*
16:30	Coffee break
17:00	Emília Halušková (Slovak Academy of Sciences in Košice, Slovakia), *On one Discrete Property of Monotone Functions*
17:30	Ângela Mestre (University of Lisbon, Portugal), *Square Matrices related to Sequences of Riordan Arrays*
18:15	Special session: Mirosław Kurkowski (Cardinal Stefan Wyszynski University, Poland), *Polish academic memorabilia 1839–1948*

FRIDAY, MARCH 15TH

Morning session

9:30	Jan Wolenski (University of Information Technology and Managment in Rzeszów, Poland), *Models and States of Affairs*
10:15	Jerzy Pogonowski (Adam Mickiewicz University in Poznan, Poland), *Mathematical Intuitions*
11:00	Coffee break
11:30	Ján Haluška (Slovak Academy of Sciences in Košice, Slovakia), *On a generalization of the Gaussian plane to three dimensions*
12:00	Krzysztof Krawczyk (Nicolaus Copernicus University in Torun, Poland) and Tomasz Jarmuzek (Nicolaus Copernicus University in Torun, Poland), *Relating epistemic logic. An alternative approach to reasoning about propositional attitudes*
12:30	Tomasz Połacik (University of Silesia in Katowice, Poland), *TBA*

Afternoon session

15:00	Michał Mazur (Cardinal Stefan Wyszynski University, Poland) and Mirosław Kurkowski (Cardinal Stefan Wyszynski University, Poland), *Some complexity properties of security protocols verification tools structures and algorithms*
15:30	Michał Chowaniec (Cardinal Stefan Wyszynski University, Poland) and Mirosław Kurkowski (Cardinal Stefan Wyszynski University, Poland), *Using SAT based approach for cryptanalysis of symmetric ciphers*
16:00	Coffee break
16:30	Małgorzata Łazarska (Cardinal Stefan Wyszynski University, Poland) and Mirosław Kurkowski (Cardinal Stefan Wyszynski University, Poland), *New searching ways in graph databases*
17:00	Dorota Leszczynska-Jasion (Adam Mickiewicz University in Poznan, Poland) and Szymon Chlebowski (Adam Mickiewicz University in Poznan, Poland), *Synthetic Tableaux for Propositional Intuitionistic Logic*
18:00	Special session: Kazimierz Czarnota (University of Warsaw, Poland), *The first machine controlled by a programme. Jaquard and Szczepanik*

SATURDAY, MARCH 16TH

Morning session

10:00	Ryszard Miszczynski (Jan Długosz University in Czestochowa, Poland), *Prototethics vs. Classical Propositional Calculus*
10:30	Monika Pisniak (University of Opole, Poland), *Uncertainty of information and measurement of information*
11:00	Coffee break
11:30	Grzegorz Sitek (Jan Długosz University in Czestochowa, Poland), *Construction of the primitive notions of Hilbert's Geometry in Tarski's Geometry of Solids*
12:00	Yuriy Povstenko (Jan Długosz University in Czestochowa, Poland) and Tamara Kyrylych (Jan Długosz University in Czestochowa, Poland), *Generalized boundary conditions for equations with fractional derivatives*
12:30	Yutaka Miyazaki (Osaka University of Economics and Law, Japan), *On Modal Logics with Cyclic Axioms*