

Conference on
ALGORITHMIC COMPLEXITY AND UNIVERSAL ALGEBRA
Dedicated to the 75th birthday of Béla Csákány
Szeged, Hungary, July 16–20, 2007

Organized jointly by
the Bolyai Institute of the University of Szeged and
the Szeged Committee of the Hungarian Academy of Sciences



Sponsors:
European Mathematical Society
Hungarian Academy of Sciences
Foundation for Szeged
Graduate Institute of the University of Szeged
Mayor of Szeged

PROGRAM

Monday morning

Chairman: Miklós Maróti

9:00–10:00	Registration
	Coffee Break
10:15–10:25	Opening by Professor Gábor Szabó, Rector of the University of Szeged
10:30–11:20	Marcin Kozik: Varietal membership problem and alternation
11:30–11:50	Gábor Horváth: The Extended Equivalence Problem over Finite Groups

Monday afternoon

Chairman: **Tamás Schmidt**

2:00–2:20	Péter P. Pálffy: A minimal talk on clones
2:30–2:50	Tamás Waldhauser: Minimal clones with few majority operations
	Coffee Break
3:30–3:50	Anna Zamojska-Dzienio: On lattices embeddable into convexity lattices of some posets
4:00–4:20	Sándor Radeleczki: Partial orders on algebras and related structures
4:30–4:50	Reza Ameri: L -Multialgebras and P -fuzzy Congruence of Multialgebras
7:00–	Banquet (Study and Information Center, Ady tér 10)

Tuesday morning

Chairman: **William Lampe**

9:00–9:20	Vesna Celakoska-Jordanova: Free Objects in the Class of Power Left and Right Idempotent Groupoids
9:30–9:50	Alexei Vernitski: On completing partial groupoids to semigroups
	Coffee Break
10:30–11:20	Petar Marković: Few subpowers and Constraint Satisfaction Problem
11:30–11:50	Libor Barto: Jónsson terms imply cyclic terms for finite algebras

Tuesday afternoon

Chairman: **Emil W. Kiss**

2:00–2:20	Andrei Krokhin: Lattices and the complexity of maximum constraint satisfaction
2:30–2:50	Gabriella Pluhár: The free spectra of semigroups (Part I)
	Coffee Break
3:30–3:50	Kamilla Kátai-Urbán: The free spectra of semigroups (Part II)
4:00–4:20	Kiyomitsu Horiuchi: Homomorphism ordered sets and construction ordered sets on operations

Wednesday morning

Chairman: **Benoit Larose**

9:00–9:20	Agata Pilitowska: Modes not embeddable into semimodules
9:30–9:50	Nebojša Mudrinski: Higher Commutators – Properties and Applications
	Coffee Break
10:30–11:20	Victor Dalmau: Constraint Satisfaction Problems and width
11:30–11:50	Tomasz Gorazd: Clones and the complexity of TermSAT

Thursday morning

Chairman: **Pawel M. Idziak**

9:00–9:20	Oleg Gutik: On H -closed topological semilattices
9:30–9:50	Valentina Miovska: Free $(m + k, m)$ -bands
	Coffee Break
10:30–11:20	Jaroslav Nešetřil: Many Faces of Dualities
11:30–11:50	Todd Niven: Full dualities: quasi-primal algebras via relational structures

Thursday afternoon

Chairman: **Ervin Fried**

2:00–2:20	Reinhard Pöschel: Which sets of relations generate the monoid of all binary relations
2:30–2:50	Hajime Machida: Some Remarks on Minimal Clones – A Minimal Adventure to the World of B. Csákány
	Coffee Break
3:30–3:50	Miklós Maróti: Gumm terms imply cyclic terms for finite algebras
4:00–4:20	Rajabali Borzooei: Relations Among Implication Algebras and Some Ordered Algebras
7:00–	Dinner in Restaurant “Öreg Kőrössy Halászcsárda” (Bus leaves at 6:30 pm)

Friday morning

Chairman: Csaba Szabó

9:00–9:20	Sebastian Liebscher: Generalized Associative Spectra
9:30–9:50	Svetlana Goldberg: Complexity of Variety Membership for nonfinitely based finite semigroups
	Coffee Break
10:30–11:20	Vera Vértesi: The Equivalence Problem for Finite Structures
11:30–11:50	George McNulty: Automatic algebras, finitely based or not