

AAA
Arbeitstagung Allgemeine Algebra
Workshop on General Algebra

AAA61
 February 2 - 4, 2001

Program

Friday, February 2

Room 223 Chair: Rudolf Wille

14.00 **Gunther Schmidt**

Promising applications of relation algebra in computer science

Room 223

Chair: Roger D. Maddux

Room 123

Chair: Klaus Keimel

Relational algebra in computer science

Rings

15.00 Joachim Hereth Correia

Algebraic Treatment of Database

Relations

Sergei Limarenko

Density Theorems for Super-Rings

15.25 Rudolf Wille

Contextual Relation Algebra

Gunter F. Pilz

Rings and near-rings in systems theory

15.50 Break

Room 223

Chair: Frithjof Dau

Room 123

Chair: Klaus Denecke

Room 112

Chair: Harald Gropp

Lattices

Coalgebras

Discrete mathematics

16.50 Sandor Radeleczki

Classification Systems

H. Peter Gumm

Monoid labeled transition systems

A. G. Kolpakov

The discrete convex combinations problem

17.15 Leonard Kwuida

Dicomplemented lattices: representation theorem

Michael Damm

On check digit systems using totally antisymmetric quasigroups

I. G. Sheremet

The convex combinations problem

17.40	Vladimir Slezak <i>The context of independent sets Defined on special lattices</i>	Tobias Schröder <i>Distributivity of Categories of Coalgebras</i>
18.05	Marcelo Frias <i>Interpretability of First-Order Dynamic Logic in an Extension of Fork Algebras</i>	Ewa Graczynska <i>Completeness of Unary Coalgebras</i>

Saturday, February 3

Room 223	Chair: Peter Burmeister
9.00	Ildiko Sain <i>Recent trends and applications in definability theory</i>

Room 223	Chair: Silke Pollandt	Room 123	Chair: Erhard Aichinger
Relational algebra in computer science		General Algebra	
10.00	Reinhard Pöschel <i>Operations and – and on – relations</i>	Ivan Chajda <i>Duality of normally presented varieties</i>	
10.25	Ferdinand Börner <i>Representations of countable Krasneralgebras</i>	Radomir Halas <i>A triplet construction for modular posets</i>	

10.50 Break

Room 223	Room 123	Room 112	
Chair: Bernhard Ganter	Chair: Ondrej Klima	Chair: Josef Slapal	
Formal Concept Analysis	Semigroups	Topology/Categories	
11.45	Sergei O. Kuznetsov <i>Pattern Structures and their Projections</i>	Libor Polak <i>Relationships between classifications. of regular languages by their ordered syntactic monoids and semilattice-ordered syntactic monoids</i>	Alex J. Lemin <i>Treelike lattices and ultrametric spaces</i>

12.10	Christian Sacarea <i>Towards a Contextual Topology</i>	Alexei Vernitski <i>Algebras of Semigroup Formulae</i>	Jan Paseka <i>Bicategories of quantales</i>
12.35	Katja Lengnink <i>Polythetic Concepts</i>	Akihiro Yamamura <i>Van Kampen diagrams and E-unitary extensions</i>	Tobias Rieck <i>Morita Equivalence for Monoids</i>
13.00	Break		
	Room 223 Chair: Heinz-Peter Gumm		
15.00	Roger D. Maddux <i>Constraint Satisfaction Problems</i>		

	Room 223	Chair: Ferdinand Börner	Room 123	Chair: Radomir Halas
	Relational algebra in computer science		General algebra	
16.00	Frithjof Dau <i>Concept graphs as propositions of first- order logic</i>		Mikhail Klin <i>Algebraic and combinatorial isomor- phisms of coherent configurations</i>	
16.25	Silke Pollandt <i>Relational constructions on power context families and semiconcept graphs</i>		V.G. Boitsov <i>Explicit formulas for the Kurihara's homomorphism</i>	
16.50	Break			
	Room 223	Room 123	Room 11:	
	Chair: Ivan Chajda	Chair: Libor Polak	Chair: Mikhail Klin	
	Partial algebras	Semigroups	Discrete mathematics	
17.45	Peter Burmeister <i>The epimorphic images of the free OMA with three generators</i>	I. A. Ivanov <i>The construction of finitely-defined semi- groups, satisfying some exotic properties</i>	Andrei Bulatov <i>Algebraic structures in combinatorial problems</i>	
18.10	Richard Holzer <i>Orthomodular partial algebras</i>	Elena Rudo <i>Isomorphic representations of of semigroups by bicharacters</i>	Harald Gropp <i>Orbital matrices and graph theory – a project for the next century</i>	

18.35	Josef Slapal	Vladimir A. Molchanov	Aiso Heinze
-	<i>Cartesian closedness in</i>	<i>Matrix extension of binary</i>	<i>Small strongly regular</i>
19.00	<i>categories of partial</i>	<i>relation semigroup and its</i>	<i>graphs and corresponding</i>
	<i>algebras</i>	<i>application to the theory of</i>	<i>partial difference</i>
		<i>words on finite automata</i>	<i>sets – a survey</i>
		<i>and semigroups</i>	

Sunday, February 4

	Room 223	Chair: Gunther Schmidt	Room 123	Chair: Ewa Graczyńska
	Relational algebra in computer science		Hyperidentities	
9.00	Bernhard Ganter		Klaus Denecke	<i>Equational Theories</i>
	<i>Drawing lattice diagrams</i>			<i>generated by Hypersubstitutions</i>
9.25	Robin Hirsch		Shelly L. Wismath	
	<i>Strongly representable relation algebra</i>		<i>Solid Varieties of Type (n)</i>	
				<i>atom structures</i>
9.50	D. A. Bredikhin		Jörg Koppitz	
	<i>On the variety generated by positive</i>		<i>Infinite Chains of Solid Varieties of</i>	
	<i>reducts of Tarski's relation algebras</i>		<i>Arbitrary Types</i>	
10.15	Michael Winter		Slavcho Shtrakov	
	<i>A necessary relation algebra for</i>		<i>Algorithms for Depth and Size of</i>	
			<i>Hypersubstitutions</i>	
				<i>mereotopology</i>
10.40	Break			
	Room 223	Room 123	Room 112	
	Chair: Reinhard Pöschel	Chair: Gunter F. Pilz	Chair: Richard Holzer	
	General algebra	Rings	Groupoids	
11.40	Erhard Aichinger	Hippolyte Hounnon	Lidija Goracinova Ilieva	
	<i>The polynomial functions</i>	<i>On Presolid Varieties of</i>	<i>Groupoids with the</i>	
	<i>of certain algebras</i>	<i>Semirings</i>	<i>identity $(xy)y = yx$</i>	

12.05	Danica Jakubikova- Studenovska <i>Antiatomic retract varieties of monounary algebras</i>	Pudji Astuti <i>Stacked bases theorems for finitely generated primary modules over a principal ideal domain</i>	Adam Marczak <i>Square extension of a groupoid</i>
12.30	Boza Tasic - <i>A note on homomorphic images, subalgebras and various products</i>	Irawati <i>Finite length modules over HNP ring</i>	Ondrej Klima <i>Complexity of unification and matching problems in the varieties of bands</i>

Room 223 Chair: Reinhard Pöschel

13.00 **Concluding Discussion**

-

13.30