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Disciplina	004
Soggetti	Number theory Logic, Symbolic and mathematical Software engineering Computer logic Computer science—Mathematics Artificial intelligence Number Theory Mathematical Logic and Formal Languages Software Engineering Logics and Meanings of Programs Symbolic and Algebraic Manipulation Artificial Intelligence
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Invited Papers -- Choice Procedures in Pairwise Comparison Multiple-Attribute Decision Making Methods -- Kleene Algebra with Relations -- Contributed Papers -- Integrating Model Checking and Theorem Proving for Relational Reasoning -- Fixed-Point Characterisation of Winning Strategies in Impartial Games -- Checking the Shape Safety of

Pointer Manipulations -- Applying Relational Algebra in 3D Graphical Software Design -- Investigating Discrete Controllability with Kleene Algebra -- Tracing Relations Probabilistically -- Pointer Kleene Algebra -- Kleene Modules -- The Categories of Kleene Algebras, Action Algebras and Action Lattices Are Related by Adjunctions -- Towards a Formalisation of Relational Database Theory in Constructive Type Theory -- SCAN Is Complete for All Sahlqvist Formulae -- Relations and GUHA-Style Data Mining II -- A Note on Complex Algebras of Semigroups -- Calculational Relation-Algebraic Proofs in Isabelle/Isar -- A Calculus of Typed Relations -- Greedy-Like Algorithms in Modal Kleene Algebra -- Rasiowa-Sikorski Style Relational Elementary Set Theory -- Relational Data Analysis -- Two Proof Systems for Peirce Algebras -- An Institution Isomorphism for Planar Graph Colouring -- Decomposing Relations into Orderings.

Sommario/riassunto

This volume contains the proceedings of the 7th International Seminar on - lational Methods in Computer Science (ReMiCS 7) and the 2nd International Workshop on Applications of Kleene Algebra.

The common meeting took place in Bad Malente (near Kiel), Germany, from May 12–17, 2003. Its purpose was to bring together researchers from various subdisciplines of Computer Science, Mathematics and related fields who use the calculi of relations and/or Kleene algebra as methodological and conceptual tools in their work. This meeting is the joint continuation of two different series of meetings. Previous ReMiCS seminars were held in Schloss Dagstuhl (Germany) in January 1994, Parati (Brazil) in July 1995, Hammamet (Tunisia) in January 1997, Warsaw (Poland) in September 1998, Quebec (Canada) in January 2000, and Oisterwijk (The Netherlands) in October 2001. The first workshop on applications of Kleene algebra was also held in Schloss Dagstuhl in February 2001. To join these two events in a common meeting was mainly motivated by the substantial common interests and overlap of the two communities.

We hope that this leads to fruitful interactions and opens new and interesting research directions.
