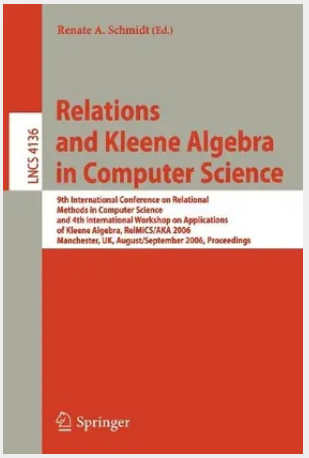
Schmidt

Relations and Kleene Algebra in Computer Science

9th International Conference on Relational Methods in Computer Science and 4th International Workshop on Applications of Kleene Algebra, RelMiCS/AKA 2006, Manchester, UK, August 29 - September2, 2006, Proceedings

The book constitutes the joint refereed proceedings of the 9th International Conference on Relational Methods in Computer Science, RelMiCS 2006, and the 4th International Workshop on Applications of Kleene Algebras, AKA 2006, held in Manchester, UK in August/September 2006. The 25 revised full papers presented together with two invited papers and the abstract of an invited talk were carefully reviewed and selected from 44 submissions.

Weak Kleene Algebra and Computation Trees.- Finite Symmetric Integral Relation Algebras with No 3-Cycles.- Computations and Relational Bundles.- An Axiomatization of Arrays for Kleene Algebra with Tests.- Local Variable Scoping and Kleene Algebra with Tests.- Computing and Visualizing Lattices of Subgroups Using Relation Algebra and RelView.- On the Complexity of the Equational Theory of Relational Action Algebras.- Demonic Algebra with Domain.- Topological Representation of Contact Lattices.- Betweenness and Comparability Obtained from Binary Relations.- Relational Representation Theorems for General Lattices with Negations.- Monotonicity Analysis Can Speed Up Verification.- Max-Plus Convex Geometry.- Lazy Semiring Neighbours and Some Applications.- Omega Algebra, Demonic Refinement Algebra and Commands.- Semigroupoid Interfaces for Relation-Algebraic Programming in Haskell.- On the Cardinality of Relations.- Evaluating Sets of Search Points Using Relational Algebra.- Algebraization of Hybrid Logic with Binders.- Using Probabilistic Kleene Algebra for Protocol Verification.- Monotone Predicate Transformers as Up-Closed Multirelations.- Homomorphism and Isomorphism Theorems Generalized from a Relational Perspective.- Relational Measures and Integration.- A Relational View of Recurrence and Attractors in State Transition Dynamics.- On Two Dually Nondeterministic Refinement Algebras.- On the Fixpoint Theory of Equality and Its Applications.- Monodic Tree Kleene Algebra.- Weak Relational Products.



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