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Johnson, Michael; Vene, Varmo;

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This book constitutes the refereed proceedings of the 11th International Conference on Algebraic Methodology and Software Technology, AMAST 2006, held in Kuressaare, Estonia in July 2006, co-located with MPC 2006, the 8th International Conference on Mathematics of Program Construction. The 24 revised full papers presented together with 3 system demonstrations and 3 invited talks were carefully reviewed and selected from 55 submissions. Among the topics covered are all current issues in formal methods related to algebraic approaches and to software engineering including abstract data types, process algebras, algebraic specification, model checking, abstraction, refinement, mu-calculus, state machines, rewriting, Kleene algebra, programming logic, and formal software development.

Invited Talks Incremental Software Construction with Refinement Diagrams Recursive Program Schemes: Past, Present, and Future Monad-Based Logics for Computational EffectsContributed Papers State Space Representation for Verification of Open Systems Data Movement Optimisation in Point-Free Form Measuring the Speed of Information Leakage in Mobile Processes Formal Islands Some Programming Languages for LOGSPACE and PTIME Opaque Predicates Detection by Abstract Interpretation DO-Cash An Observer-Based Casl Extension for Dynamic Specifications Model Transformations Incorporating Multiple Views Hyperfinite Approximations to Labeled Markov Transition Systems State Space Reduction of Rewrite Theories Using Invisible Transitions The Essence of Multitasking The Substitution Vanishes Decomposing Interactions Verification of Communication Protocols Using Abstract Interpretation of FIFO Queues Assessing the Expressivity of Formal Specification Languages Fork Algebras as a Sufficiently Rich Universal Institution Realizability Criteria for Compositional MSC Quantales and Temporal Logics Fractional Semantics Reasoning About Data-Parallel Pointer Programs in a Modal Extension of Separation Logic Testing Semantics: Connecting Processes and Process Logics Tableaux for Lattices Accelerated Modal Abstractions of Labelled Transition Systems A Compositional Semantics of Plan Revision in Intelligent AgentsSystem DescriptionsAuthor Index

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