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      454

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This book constitutes the refereed proceedings of the 8th International Conference on Mathematics of Program Construction, MPC 2006, held in Kuressaare, Estonia in July 2006, co-located with AMAST 2006, the 11th International Conference on Algebraic Methodology and Software Technology. The 22 revised full papers presented together with 3 invited talks were carefully reviewed and selected from 45 submissions. Issues addressed range from algorithmics to support for program construction in programming languages and systems. Topics of special interest are type systems, program analysis and transformation, programming language semantics, program logics.

Invited Talks What Is a Good Process Semantics? Refunctionalization at Work Aspects and Data RefinementContributed Papers Towards Generic Programming with Sized Types Relational Semantics for Higher-Order Programs Proofs of Randomized Algorithms in CoQ Exercises in Quantifier Manipulation Improving Saddleback Search: A Lesson in Algorithm Design Loopless Functional Algorithms Compositional Reasoning for Pointer Structures Progress in Deriving Concurrent Programs: Emphasizing the Role of Stable Guards Fission for Program Comprehension "Scrap Your Boilerplate" Revolutions Generic Views on Data Types Recursion Schemes for Dynamic Programming Bimonadic Semantics for Basic Pattern Matching Calculi Nondeterministic Folds A Datastructure for Iterated Powers Continuous Action System Refinement The Linear Algebra of UTP The Shadow Knows: Refinement of Ignorance in Sequential Programs Swapping Arguments and Results of Recursive Functions Refinement Algebra with Operators for Enabledness and Termination Constructing Rewrite-Based Decision Procedures for Embeddings and Termination Quantum Predicative ProgrammingAuthor Index

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