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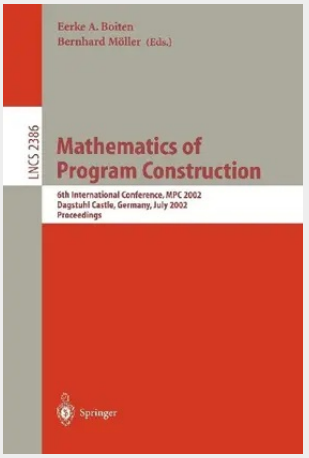
Mathematics of Program Construction

6th International Conference, MPC 2002, Dagstuhl Castle, Germany, July 8-10, 2002. Proceedings

the IFIP WG2.1 working conference on Generic Programming, the third workshop on Constructive Methods for Parallel Programming, and the workshop on Types in Programming. We thank the organizers of these events for their interest in sharing the atmosphere of the conference.

Invited Talks.- Implementing Algebraic Dynamic Programming in the Functional and the Imperative Programming Paradigm.- Some Results in Dynamic Model Theory.- Mathematics in Computer Science Curricula.- Contributed Papers.- Logical Relations and Galois Connections.- Transformational Derivation of Greedy Network Algorithms from Descriptive Specifications.- Fine Control of Demand in Haskell.- Reasoning about Timeouts.- Eternity Variables to Simulate Specifications.- Constructing Tournament Representations: An Exercise in Pointwise Relational Programming.- Type-Indexed Data Types.- Verification of Java's AbstractCollection Class: A Case Study.- Solving Regular Path Queries.- Inverting Functions as Folds.- From Kleene Algebra to Refinement Algebra.



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