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Implementation of Functional Languages

13th International Workshop, IFL 2001 Stockholm, Sweden, September 24-26, 2001
Selected Papers

This book constitutes the thoroughly refereed post-proceedings of the 13th International Workshop on the Implementation of Functional Languages, IFL 2001, held in Stockholm, Sweden in September 2001. The eleven revised full papers presented have gone through a thorough round of post-workshop reviewing and were selected from 28 workshop papers. Among the topics covered are relevant aspects of implementing and using functional languages, such as type systems, compilation, program optimization, theorem proving, program correctness, program analysis, parallel compilers, subtyping, and generic programming.

Sized Types for Typing Eden Skeletons.- A Compilation Scheme for a Hierarchy of Array Types.- Optimizations on Array Skeletons in a Shared Memory Environment.- Theorem Proving for Functional Programmers.- Proving Correctness of Programs with IO -A Paradigm Comparison.- Proving the Correctness of the STG Machine.- Dynamic Cheap Eagerness.- A Polynomial-Cost Non-determinism Analysis.- Comparative Cross-Platform Performance Results from a Parallelizing SML Compiler.- Runtime Behavior of Conversion Interpretation of Subtyping.- A Generic Programming Extension for Clean.



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