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This book presents revised and extended versions of lectures given at an international summer school on applied semantics that took place in Caminha, Portugal in September.The nine lectures included present recent developments in programming language research in a coherent and systematic way. Among the topics addressed are-description of existing programming languages features-design of new programming languages features-implementation and analysis of programming languages-transformation and generation of programs-verification of programs.

An Introduction to Dependent Type TheoryMonads and EffectsAbstract Machines, Control, and SequentsNormalization and Partial EvaluationComputing with Real NumbersThe Join Calculus: A Language for Distributed Mobile ProgrammingAn Introduction to Functional NetsOperational SemanticsProgram EquivalenceUsing, Understanding, and Unraveling the OCaml LanguageAuthor Index

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