

1. Record Nr.	UNINA9910768446703321
Titolo	Mathematics of Program Construction : 5th International Conference, MPC 2000 Ponte de Lima, Portugal, July 3-5, 2000 Proceedings / / edited by Roland Backhouse, Jose Nuno Oliveira
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2000
ISBN	3-540-45025-4
Edizione	[1st ed. 2000.]
Descrizione fisica	1 online resource (X, 262 p.)
Collana	Lecture Notes in Computer Science, , 0302-9743 ; ; 1837
Disciplina	004.2/1/0151
Soggetti	Software engineering Computer programming Computer logic Mathematical logic Programming languages (Electronic computers) Software Engineering/Programming and Operating Systems Programming Techniques Software Engineering Logics and Meanings of Programs Mathematical Logic and Formal Languages Programming Languages, Compilers, Interpreters
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Integrating Programming, Properties, and Validation -- Polytypic Values Possess Polykinded Types -- The Zip Calculus -- Separation and Reduction -- Reasoning about Non-terminating Loops Using Deadline Commands -- Quantum Programming -- Regular Expressions Revisited: A Coinductive Approach to Streams, Automata, and Power Series -- Proving Pointer Programs in Hoare Logic -- On Guarded Commands with Fair Choice -- Formal Methods and Dependability -- Liberating Data Refinement -- Theorems about Composition -- The Universal Resolving Algorithm: Inverse Computation in a Functional Language -- Metacomputation-Based Compiler Architecture -- A Metalanguage for Programming with Bound Names Modulo Renaming.

This volume contains the proceedings of MPC 2000, the 7th international conference on Mathematics of Program Construction. This series of conferences aims to promote the development of mathematical principles and techniques that are demonstrably useful and usable in the process of constructing computer programs (whether implemented in hardware or software). The focus is on techniques that combine precision with concision, enabling programs to be constructed by formal calculation. Within this theme, the scope of the series is very diverse, including programming methodology, program specification and transformation, programming paradigms, programming calculi, and programming language semantics. The quality of the papers submitted to the conference was in general very high. However, the number of submissions has decreased compared to the previous conferences in the series. Each paper was refereed by at least five and often more committee members. In order to maintain the high standards of the conference the committee took a stringent view on quality; this has meant that, in some cases, a paper was rejected even though there was a basis for a good conference or journal paper but the submitted paper did not meet the committee's required standards. In a few cases a good paper was rejected on the grounds that it did not fit within the scope of the conference.
