

# Table of Contents

Integrating Programming, Properties, and Validation .....	1
<i>Mark P. Jones</i>	
Polytypic Values Possess Polykinded Types .....	2
<i>Ralf Hinze</i>	
The Zip Calculus .....	28
<i>Mark Tullsen</i>	
Separation and Reduction .....	45
<i>Ernie Cohen</i>	
Reasoning about Non-terminating Loops Using Deadline Commands .....	60
<i>Ian Hayes</i>	
Quantum Programming .....	80
<i>J. W. Sanders and P. Zuliani</i>	
Regular Expressions Revisited: A Coinductive Approach to Streams, Automata, and Power Series .....	100
<i>J.J.M.M. Rutten</i>	
Proving Pointer Programs in Hoare Logic .....	102
<i>Richard Bornat</i>	
On Guarded Commands with Fair Choice .....	127
<i>Emil Sekerinski</i>	
Formal Methods and Dependability .....	140
<i>Cliff B. Jones</i>	
Liberating Data Refinement .....	144
<i>Eerke Boiten and John Derrick</i>	
Theorems about Composition .....	167
<i>Michel Charpentier and K. Mani Chandy</i>	
The Universal Resolving Algorithm: Inverse Computation in a Functional Language .....	187
<i>Sergei Abramov and Robert Glück</i>	
Metacomputation-Based Compiler Architecture .....	213
<i>William L. Harrison and Samuel N. Kamin</i>	
A Metalanguage for Programming with Bound Names Modulo Renaming .....	230
<i>Andrew M. Pitts and Murdoch J. Gabbay</i>	
Author Index .....	257



<http://www.springer.com/978-3-540-67727-7>

Mathematics of Program Construction

5th International Conference, MPC 2000 Ponte de Lima,

Portugal, July 3-5, 2000 Proceedings

Backhouse, R.; Nuno Oliveira, J. (Eds.)

2000, X, 262 p., Softcover

ISBN: 978-3-540-67727-7