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Refinement Calculus

A Systematic Introduction



Ralph-Johan Back Joakim von Wright



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Ralph-Johan Back, Joakim Wright

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Refinement Calculus Ralph-Johan Back, Joakim Wright, 1998-04-13 Much current research in computer science is concerned with two questions is a program correct And how can we improve a correct program preserving correctness This latter question is known as the refinement of programs and the purpose of this book is to consider these questions in a formal setting In fact correctness turns out to be a special case of refinement and so the focus is on refinement Although a reasonable background knowledge is assumed from mathematics and CS the book is a self contained introduction suitable for graduate students and researchers coming to this subject for the first time There are numerous exercises provided of varying degrees of challenge Theorem Proving in Higher Order Logics Victor A. Carreno, César A. Muñoz, Sofiène Tahar, 2002

Mathematics of Program Construction Tarmo Uustalu, 2006-06-29 This book constitutes the refereed proceedings of the 8th International Conference on Mathematics of Program Construction MPC 2006 held in Kuressaare Estonia in July 2006 The book collects 22 revised full papers presented with 3 invited talks Issues addressed range from algorithmics to support for program construction in programming languages and systems Topics of special interest are type systems program analysis and transformation programming language semantics program logics Formal Methods for Components and Objects Frank S. de Boer, Marcello M. Bonsangue, Stefan Hallerstede, Michael Leuschel, 2010-11-11 All modern industries rely on large and complex software systems In order to construct such large systems in a systematic manner the focus of the development methodologies has switched in the last two decades from functional to structural issues Formal methods have been applied successfully to the verification of medium sized programs in protocol and hardware design However their application to the development of large systems requires a greater emphasis on specification modeling and validation techniques supporting the concepts of reusability and modifiability and their implementation in new extensions of existing programming languages like Java This state of the art survey presents the outcome of the 8th Symposium on Formal Methods for Components and Objects held in Eindhoven The Netherlands in November 2009 The volume contains 17 revised contributions submitted after the symposium by speakers from each of the following European IST projects the IST FP6 project BIONETS on biologically inspired services evolution for the pervasive age the IST FP7 project COMPAS on compliance driven models languages and architectures for services the IST FP6 project CREDO on modelling and analysis of evolutionary structures for distributed services the IST FP7 DEPLOY on industrial deployment of advanced system engineering methods for high productivity and dependability the IST FP7 project HATS on highly adaptable and trustworthy software using formal methods the IST FP7 project INESS on integrated European railway signalling system the IST FP7 project MOGENTES on model based generation of tests for dependable embedded systems the IST FP6 project PROTEST on property based testing and the IST FP7 project QUASIMODO on quantitative system properties in model driven design of embedded systems Typed Lambda Calculi and Applications Simona Ronchi Della Rocca, 2007-07-11 This book

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selected from a total of 108 submissions. The papers are organized in topical sections on component engineering and software architecture method integration specification techniques and languages tools and environments refinement applications validation and verification UML and semantics B 2007: Formal Specification and Development in B Jacques Julliand, Olga Kouchnarenko, 2006-12-12. This book constitutes the refereed proceedings of the 7th International Conference of B Users B 2007 held in Besan on France January 2007. Coverage in this volume includes industrial applications and case studies using B integration of model based specification methods in the software development lifecycle derivation of hardware software architecture from model based specifications and validating requirements through formal models

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