

Refinement Calculus

A Systematic Introduction



Ralph-Johan Back
Joakim von Wright



Springer

Refinement Calculus A Systematic Introduction

Zhiming Liu, Jifeng He



Refinement Calculus A Systematic Introduction:

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

constitutes the refereed proceedings of the 8th International Conference on Typed Lambda Calculi and Applications TLCA 2007 held in Paris France in June 2007 in conjunction with RTA 2007 the 18th International Conference on Rewriting Techniques and Applications as part of RDP 2007 the 4th International Conference on Rewriting Deduction and Programming The 25 revised full papers presented together with 2 invited talks were carefully reviewed and selected from 52 submissions The papers present original research results that are broadly relevant to the theory and applications of typed calculi and address a wide variety of topics such as proof theory semantics implementation types and programming Formal Methods and Software Engineering Zhiming Liu, Jifeng He, 2006-10-24 This book constitutes the refereed proceedings of the 8th International Conference on Formal Engineering Methods ICFEM 2006 held in Macao China in November 2006 The 38 revised full papers presented together with three keynote talks were carefully reviewed and selected from 108 submissions The papers address all current issues in formal methods and their applications in software engineering *ZB 2002: Formal Specification and Development in Z and B* Didier Bert, Jonathan P. Bowen, Martin C. Henson, Ken Robinson, 2003-07-31 This book constitutes the refereed proceedings of the Second International Conference of B and Z Users ZB 2002 held in Grenoble France in January 2002 The 24 papers presented together with three invited contributions were carefully reviewed and selected for inclusion in the book The book documents the recent advances for the Z formal specification notion and for the B method the full scope is covered ranging from foundational and theoretical issues to advanced applications tools and case studies **Engineering Theories of Software Intensive Systems** Manfred Broy, Johannes Gruenbauer, David Harel, Tony Hoare, 2005-11-13 Software engineering has over the years been applied in many different fields ranging from telecommunications to embedded systems in car and aircraft industry as well as in production engineering and computer networks Foundations in software technology lie in models allowing to capture application domains detailed requirements but also to understand the structure and working of software systems like software architectures and programs These models have to be expressed in techniques based on discrete mathematics algebra and logics However according to the very specific needs in applications of software technology formal methods have to serve the needs and the quality of advanced software engineering methods especially taking into account security aspects in Information Technology This book presents mathematical foundations of software engineering and state of the art engineering methods in their theoretical substance in the step towards practical applications to examine software engineering techniques and foundations used for industrial tasks The contributions in this volume emerged from lectures of the 25th International Summer School on Engineering Theories of Software Intensive Systems held at Marktoberdorf Germany from August 3 to August 15 2004 Formal Methods and Software Engineering Chris George, Huaikou Miao, 2003-06-30 This book constitutes the refereed proceedings of the 4th International Conference on Formal Engineering methods ICFEM 2002 held in Shanghai China in October 2002 The 43 revised full papers and 16 revised short papers presented together with 5 invited contributions were carefully reviewed and

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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