

Programming Concepts and Methods

PROCOMET '98

Edited by

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Programming Concepts And Methods Procomet 98

Judd E. Hollander



Programming Concepts And Methods Procomet 98:

Programming Concepts and Methods Procomet '98 David Gries,Willem-Paul de Roever,2014-01-15 **Programming Concepts and Methods PROCOMET '98** David Gries,Willem-Paul de Roever,2013-04-17 This book constitutes the Proceedings of the IFIP Working Conference PRO COMET 98 held 8 12 June 1998 at Shelter Island N Y The conference is organized by the t wo IFIP TC 2 Working Groups 2 2 Formal Description of Programming Concepts and 2 3 Programming Methodology WG2 2 and WG2 3 have been organizing these conferences every four years for over twenty years The aim of such Working Conferences organized by IFIP Working Groups is to bring together leading scientists in a given area of computer science Participation is by invitation only As a result these conferences distinguish themselves from other meetings by extensive and competent technical discus sions PROCOMET stands for Programming Concepts and Methods indicating that the area of discussion for the conference is the formal description of pro gramming concepts and methods their tool support and their applications At PROCOMET working conferences papers are presented from this whole area reflecting the interest of the individuals in WG2 2 and WG2 3 Correct Hardware Design and Verification Methods Tiziana Margaria, Tom Melham,2003-06-30 This volume contains the proceedings of CHARME 2001 the Eleventh Advanced Research Working Conference on Correct Hardware Design and Veri cation Methods CHARME 2001 is the 11th in a series of working conferences devoted to the development and use of leading edge formal techniques and tools for the design and veri cation of hardware and hardware like systems Previous events in the CHARME series were held in Bad Herrenalb 1999 Montreal 1997 Frankfurt 1995 Arles 1993 and Torino 1991 This series of meetings has been organized in cooperation with IFIP WG 10 5 and WG 10 2 Prior meetings stretching backto the earliest days of formal hardware veri cation were held under various names in Miami 1990 Leuven 1989 Glasgow 1988 Grenoble 1986 Edinburgh 1985 and Darmstadt 1984 The convention is now well established whereby the European CHARME conference alternates with its biennial counterpart the International Conference on Formal Methods in Computer Aided Design FMCAD which is held on even numbered years in the USA The conference tookplace during 4 7 September 2001 at the Institute for System Level Integration in Livingston Scotland It was co hosted by the stitute and the Department of Computing Science of Glasgow University and co sponsored by the IFIP TC10 WG10 5 Working Group on Design and En neering of Electronic Systems CHARME 2001 also included a scienti c session and social program held jointly with the 14th International Conference on Th rem Proving in Higher Order Logics TPHOLs which was co located in nearby Edinburgh Formal Methods for Open Object-Based Distributed Systems IV Scott F. Smith,Carolyn L. Talcott,2000-08-31 Formal Methods for Open Object Based Distributed Systems IV presents the leading edge in the fields of object oriented programming open distributed systems and formal methods for object oriented systems With increased support within industry regarding these areas this book captures the most up to date information on the subject Papers in this volume focus on the following specific technologies components mobile code Java The Unified Modeling Language UML

refinement of specifications types and subtyping temporal and probabilistic systems This volume comprises the proceedings of the Fourth International Workshop on Formal Methods for Open Object Based Distributed Systems FMOODS 2000 which was sponsored by the International Federation for Information Processing IFIP and held in Stanford California USA in September 2000 Formal Methods for Real-Time and Probabilistic Systems Jost-Pieter Katoen,1999-05-12 This book constitutes the refereed proceedings of the Fifth International AMAST Workshop on Formal Methods for Real Time and Probabilistic Systems ARTS 99 held in Bamberg Germany in May 1999 The 17 revised full papers presented together with three invited contributions were carefully reviewed and selected from 33 submissions The papers are organized in topical sections on verification of probabilistic systems model checking for probabilistic systems semantics of probabilistic process calculi semantics of real time processes real time compilation stochastic process algebra and modeling and verification of real time systems *Proceedings of PART '98* Kenneth A. Hawick,Heath A. James,1998-10 The proceedings of the 5th Australasian Conference on Parallel and Real Time Systems PART 98 collects some of the exciting and innovative approaches to the problems of high performance computing At a time when the field is going through a shake out of commercial solutions the research presented here gives an insight into new hardware software and algorithms for achieving high performance on parallel and reconfigurable computing systems PART 98 covers networking and processing hardware innovations network traffic simulation modeling and routing algorithms operating systems software and control methods and parallel algorithms and applications Special emphasis is on algorithms for managing data and memory and reconfigurable systems Articles describe activities at both overview level as well as highly technical mathematical analyses of some algorithmic approaches *The Deductive Spreadsheet* Iliano Cervesato,2013-09-06 This book describes recent multidisciplinary research at the confluence of the fields of logic programming database theory and human computer interaction The goal of this effort was to develop the basis of a deductive spreadsheet a user productivity application that allows users without formal training in computer science to make decisions about generic data in the same simple way they currently use spreadsheets to make decisions about numerical data The result is an elegant design supported by the most recent developments in the above disciplines The first half of the book focuses on the deductive engine that underlies this application the foundations that users do not see After giving a mathematical model of traditional spreadsheet applications we extend them with operators to perform a number of relational tasks similar to the user view of a database but in a spreadsheet context Expressing this extension in a logic programming framework is a natural step towards giving it powerful deductive capabilities The second half of the book deals with the user interface the part of the application with which the user actually interacts We review the elements of the graphical user interface of traditional spreadsheet applications and describe practical methodologies for designing user interfaces borrowed from the field of cognitive psychology We then propose a design that conservatively integrates mechanisms for a user to take advantage of the new deductive capabilities This is followed by the results of some

preliminary usability experiments The book will appeal to researchers and practitioners in the various areas underlying this work Researchers will not only find interesting new developments in their domains but will also learn how to achieve a multidisciplinary focus Practitioners will find fully developed solutions to numerous problems that are not easily solvable using traditional spreadsheet applications

Engineering Methods and Tools for Software Safety and Security M. Broy, W. Sitou, T. Hoare, 2009-03-26 Based on the specific needs in applications of software technology models and formal methods must serve the needs and the quality of advanced software engineering methods This book provides a presentation of topics on how to meet such challenges covering both theoretical foundations and industrial practice

International Refinement Workshop and Formal Methods Pacific '98 Jim Grundy, Martin Schwenke, Trevor Vickers, 1998-09 IRW FMP 98 provides a forum for the discussion of current research on mathematically based techniques for design and development of computer systems especially formal or rigorous methods for developing executable programs from abstract specifications tool support for formal software and practical experience with formal methods Topics also include the specification and verification of hardware and software and the specification and development of real time probabilistic and concurrent systems

Mathematics of Program Construction, 2000 *the journal of strategic information systems*, 1997

Implementing Certified Programming Language Tools in Dependent Type Theory Adam James Chlipala, 2007

ACM Transactions on Computational Logic, 2010 *The British National Bibliography* Arthur James Wells, 2000

The Bulletin of Symbolic Logic, 1997 [A Logic of Object-oriented Programs](#) Martín Abadi, K. Rustan M. Leino, 1998

Abstract We develop a logic for reasoning about object oriented programs The logic is for a language with an imperative semantics and aliasing and accounts for self reference in objects It is much like a type system for objects with subtyping but our specifications go further than types in detailing pre and postconditions We intend the logic as an analogue of Hoare logic for object oriented programs Our main technical result is a soundness theorem that relates the logic to a standard operational semantics

ACM Transactions on Programming Languages and Systems Association for Computing Machinery, 1999

Proceedings of the ACM SIGPLAN--SIGSOFT Workshop on Program Analysis for Software Tools and Engineering, 1998

Mechanical Verification of Automatic Synthesis of Fault-tolerant Programs Borzoo Bonakdarpour, 2004

[Rapid Integration of Software Engineering Techniques](#), 2004

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