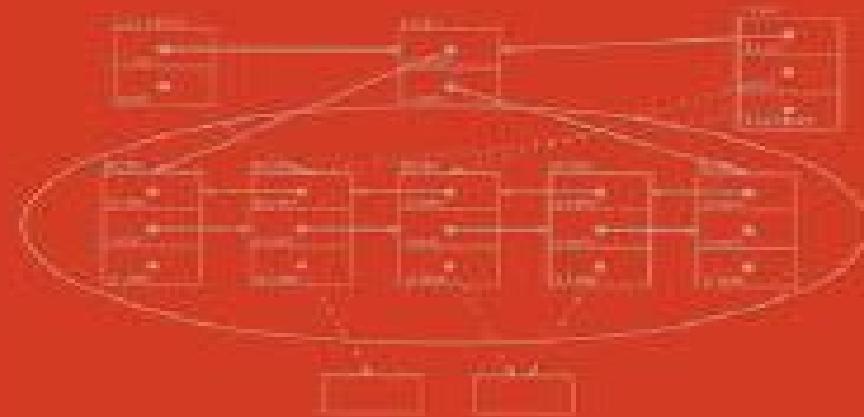


Peter Müller

LNCS 2262

# Modular Specification and Verification of Object-Oriented Programs



Springer

# Modular Specification And Verification Of Objectoriented Programs

**Peter Müller (Informaticien)**

## **Modular Specification And Verification Of Object-oriented Programs:**

**Modular Specification and Verification of Object-Oriented Programs** Peter Müller, 2002-01-23 Software systems play an increasingly important role in modern societies Smart cards for personal identification, banking software controlled medical tools, airbags in cars and autopilots for aircraft control are only some examples that illustrate how everyday life depends on the good behavior of software. Consequently, techniques and methods for the development of high quality dependable software systems are a central research topic in computer science. A fundamental approach to this area is to use formal specification and verification. Specification languages allow one to describe the crucial properties of software systems in an abstract, mathematically precise and implementation independent way. By formal verification one can then prove that an implementation really has the desired specified properties. Although this formal methods approach has been a research topic for more than 30 years, its practical success is still restricted to domains in which development costs are of minor importance. Two aspects are crucial to widen the application area of formal methods: Formal specification techniques have to be smoothly integrated into the software and program development process. The techniques have to be applicable to reusable software components. This way the quality gain can be exploited for more than one system thereby justifying the higher development costs. Starting from these considerations, Peter Müller has developed new techniques for the formal specification and verification of object-oriented software. The specification techniques are declarative and implementation independent. They can be used for object-oriented design and programming.

*Modular Specification and Verification of Object-oriented Programs with Inheritance* Gerald Kanapathy, 1993

Modular specification and verification of object-oriented programs Peter Müller (Informaticien), 2001

**Formal Methods and Software Engineering** Toshiaki Aoki, Kenji Taguchi, 2012-10-29 This book constitutes the refereed proceedings of the 14th International Conference on Formal Engineering Methods, ICFEM 2012, held in Kyoto, Japan, November 2012. The 31 revised full papers together with 3 invited talks presented were carefully reviewed and selected from 85 submissions. The papers address all current issues in formal methods and their applications in software engineering. They are organized in topical sections on concurrency, applications of formal methods to new areas, quantity and probability, formal verification, modeling and development, methodology, temporal logics, abstraction and refinement tools, as well as testing and runtime verification.

**Foundations of Component-Based Systems** Gary T. Leavens, Murali Sitaraman, 2000-03-28 This collection of articles by well known experts was originally published in 2000 and is intended for researchers in computer science, practitioners of formal methods and computer programmers working in safety critical applications or in the technology of component based systems. The work brings together several elements of this area that were fast becoming the focus of much research and practice in computing. The introduction by Clemens Szyperski gives a snapshot of research in the field. About half the articles deal with theoretical frameworks, models and systems of notation, the rest of the book concentrates on case studies by researchers who have built prototype systems and present findings on

architectures verification The emphasis is on advances in the technological infrastructure of component based systems how to design and specify reusable components and how to reason about verify and validate systems from components Thus the book shows how theory might move into practice **Verified Software: Theories, Tools, Experiments** Bertrand

Meyer,James Woodcock,2008-07-07 A Step Towards Verified Software Worries about the reliability of software are as old as software itself techniques for allaying these worries predate even James King's 1969 thesis on A program verifier What gives the whole topic a new urgency is the conjunction of three phenomena the blitz like spread of software rich systems to control ever more facets of our world and our lives our growing impatience with deficiencies and the development proceeding more slowly alas than the other two trends of techniques to ensure and verify software quality In 2002 Tony Hoare one of the most distinguished contributors to these advances over the past four decades came to the conclusion that piecemeal efforts are no longer sufficient and proposed a Grand Challenge intended to achieve over 15 years the production of a verifying compiler a tool that while processing programs would also guarantee their adherence to specified properties of correctness robustness safety security and other desirable properties As Hoare sees it this endeavor is not a mere research project as might normally be carried out by one team or a small consortium of teams but a momentous endeavor comparable in its scope to the successful mission to send a man to the moon or to the sequencing of the human genome **Software Engineering and**

**Formal Methods** Gilles Barthe,Alberto Pardo,Gerardo Schneider,2011-10-21 This book constitutes the refereed proceedings of the 9th International Conference on Software Engineering and Formal Methods SEFM 2011 held in Montevideo Uruguay in November 2011 The 22 revised regular papers presented together with 1 short paper 2 tool papers and 4 keynote talks were carefully reviewed and selected from 105 initial abstracts and 85 full submissions Besides the regular session the conference held a special track devoted to Modeling for Sustainable Development with 5 accepted papers selected from 7 submissions that are also part of this volume The aim of SEFM is to advance the state of the art in formal methods to scale up their application in software industry and to encourage their integration with practical engineering methods **Subtyping,**

**Modular Specification, and Modular Verification for Applicative Object-oriented Programs** Gary Todd Leavens,William Edward Weihl,1992 We also prove that the specification language and the Hoare logic are modular in the sense that when new types of objects are added to the program unchanged modules do not have to be respecified or reverified **Engineering Methods and Tools for Software Safety and Security** M. Broy,Wassiou Sitou,Charles Antony Richard Hoare,2009 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 **Coordination Models and**

**Languages** Wolfgang De Meuter,Gruia-Catalin Roman,2011-06-07 This book constitutes the refereed proceedings of the 13th International Conference on Coordination Models and Languages COORDINATION 2011 held in Reykjavik Iceland in June

2011 as one of the DisCoTec 2011 events The 14 revised full papers presented were carefully reviewed and selected from 35 submissions The conference focuses on the design and implementation of models that allow compositional construction of large scale concurrent and distributed systems including both practical and foundational models run time systems and related verification and analysis techniques

**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 SIGPLAN Notices** ,2005 **ACM Transactions on Programming Languages and Systems** Association for Computing Machinery,2004

*Mathematical Foundations of Programming Semantics* Stephen D. Brookes,1992 This volume contains the proceedings of the Seventh International Conference on the Mathematical Foundations of Programming Semantics held at Carnegie Mellon University March 1991 The conference continued a series of annual meetings alternating between workshop and conference formats intended to bring together computer scientists and mathematicians for discussion of research problems results and directions in programming language semantics and related areas A major goal of the series is to improve communication and interaction between researchers in these areas and to establish ties between related areas of research The volume contains revised and refereed versions of each of the contributed papers and refereed papers by three invited speakers Jon Barwise John Reynolds and Mitchell Wand

**PUBLISHER S WEBSITE Conference Proceedings** ,1993 **Formal Methods for Components and Objects** ,2004 **Mathematics of Program Construction** ,2004

**ZUM ... the Z Formal Specification Notation** ,1995 **Formal Methods and Object Technology** Stuart J.H. Kent,1996-04-26 This book presents an overview of two approaches to software engineering formal methods and object oriented techniques and by extracting the best aspects of each demonstrates how better and safer software is being developed Three main strands of research are identified and discussed the application of formal techniques to object technology the extension of formal methods with object oriented concepts and the formal foundations of object technology Examples of each approach are included and areas such as concurrency and real time which are especially important in the development of large scale distributed and safety critical systems are addressed By focusing on these two previously independent techniques and illustrating how their merger is resulting in the development of tools which are essential to the development of large scale software the editors of this book have provided valuable coverage of this rapidly developing and important area

**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

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