

**Lecture Notes in
Computer Science**

1493

**Jonathan P. Bowen Andreas Fett
Michael G. Hinchey (Eds.)**

**ZUM '98: The Z
Formal Specification
Notation**

**11th International Conference of Z Users
Berlin, Germany, September 1998
Proceedings**



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We should no longer consider the issue of whether we are pro formal or anti formal but rather the degree of formality if any that we need to support in system development This is a goal of ZUM 98 the 11th International Conference of Z Users held for the first time within continental Europe in the city of Berlin Germany

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Berlin Germany **ZUM '98**, 1998 *ZUM ... the Z Formal Specification Notation*, 1998 *ZUM'98: The Z Formal Specification Notation*, 1998 Refinement in Z and Object-Z John Derrick, Eerke A. Boiten, 2013-08-30

Refinement is one of the cornerstones of the formal approach to software engineering and its use in various domains has led to research on new applications and generalisation. This book brings together this important research in one volume with the addition of examples drawn from different application areas. It covers four main themes: Data refinement and its application to Z; Generalisations of refinement that change the interface and atomicity of operations; Refinement in Object Z; Modelling state and behaviour by combining Object Z with CSP. *Refinement in Z and Object Z: Foundations and Advanced Applications* provides an invaluable overview of recent research for academic and industrial researchers, lecturers teaching formal specification and development, industrial practitioners using formal methods in their work, and postgraduate and advanced undergraduate students. This second edition is a comprehensive update to the first and includes the following new material: Early chapters have been extended to also include trace refinement based directly on partial relations rather than through totalisation; Provides an updated discussion on divergence, non-atomic refinements, and approximate refinement; Includes a discussion of the differing semantics of operations and outputs and how they affect the abstraction of models written using Object Z and CSP; Presents a fuller account of the relationship between relational refinement and various models of refinement in CSP. Bibliographic notes at the end of each chapter have been extended with the most up-to-date citations and research.

FM'99 - Formal Methods Jeannette M. Wing, Jim Woodcock, Jim Davies, 2003-07-31

Formal methods are coming of age. Mathematical techniques and tools are now regarded as an important part of the development process in a wide range of industrial and governmental organisations. A transfer of technology into the mainstream of systems development is slowly but surely taking place. FM 99, the First World Congress on Formal Methods in the Development of Computing Systems, is a result and a measure of this new-found maturity. It brings an impressive array of industrial and applications-oriented papers that show how formal methods have been used to tackle real problems. These proceedings are a record of the technical symposium of FM 99, alongside the papers describing applications of formal methods, you will find technical reports, papers, and abstracts detailing new advances in formal techniques from mathematical foundations to practical tools. The World Congress is the successor to the four Formal Methods Europe Symposia, which in turn succeeded the four VDM Europe Symposia. This session reflects an increasing openness within the international community of researchers and practitioners: papers were submitted covering a wide variety of formal methods and application areas. The programme committee reflects the Congress's international nature with a membership of 84 leading researchers from 38 different countries. The committee was divided into 19 tracks, each with its own chair to oversee the reviewing process. Our collective task was a difficult one: there were 259 high-quality submissions from 35 different countries.

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 *IFM'99* Keijiro Araki, Andy Galloway, Kenji

Taguchi, 2012-12-06 Formal methods have been established as the rigorous engineering methodology for the system development Applying formal methods to a large and complex system development often requires the modelling of different aspects of such a system For instance complex systems such as integrated avionics systems engine control software can involve functional and timing requirements that must be eventually implemented as executing code on a communicating distributed topology This book contains the papers presented at the First International Workshop on Integrated Formal Methods held at the University of York in June 1999 The conference provided a forum for the discussion of theoretical aspects of combining behavioural and state based formalisms and practical solutions to the industrial problems of this approach **Mathematics of Program Construction** Roland Backhouse, Jose Nuno Oliveira, 2006-12-30 This volume

contains the proceedings of MPC 2000 the fifth international conference on Mathematics of Program Construction This series of conferences aims to promote the development of mathematical principles and techniques that are demonstrably useful and usable in the process of constructing computer programs whether implemented in hardware or software The focus is on techniques that combine precision with concision enabling programs to be constructed by formal calculation Within this theme the scope of the series is very diverse including programming methodology program specification and transformation programming paradigms programming calculi and programming language semantics The quality of the papers submitted to the conference was in general very high However the number of submissions has decreased compared to the previous conferences in the series Each paper was refereed by at least five and often more committee members In order to maintain the high standards of the conference the committee took a stringent view on quality this has meant that in some cases a paper was rejected even though there was a basis for a good conference or journal paper but the submitted paper did not meet the committee's required standards In a few cases a good paper was rejected on the grounds that it did not fit within the scope of the conference *Refinement* John Derrick, Eerke Boiten, 2018-09-03 Refinement is one of the cornerstones of a formal

approach to software engineering Refinement is all about turning an abstract description of a software or hardware system into something closer to implementation It provides that essential bridge between higher level requirements and an implementation of those requirements This book provides a comprehensive introduction to refinement for the researcher or graduate student It introduces refinement in different semantic models and shows how refinement is defined and used within some of the major formal methods and languages in use today It 1 introduces the reader to different ways of looking at

refinement relating refinement to observations 2 shows how these are realised in different semantic models 3 shows how different formal methods use different models of refinement and 4 how these models of refinement are related ZUM ... the Z Formal Specification Notation ,1995 **Formal Methods and Software Engineering** ,2003 Proceedings ,2004

7th Asia-Pacific Software Engineering Conference ,2000 These papers constitute the proceedings of the Seventh Asia Pacific Software Engineering Conference APSEC 2000 They address software evolution Internet applications engineering requirements engineering software architectures software agents tools and environments and more ZB ... ,2003 *Directory of Published Proceedings* ,1999 Unified Modeling Language Keng Siau,T. A. Halpin,2001 UML is a large and complex language with many features in need of refinement or clarification and there are different views about how to use UML to build systems This book sheds light on such issues by illustrating how UML can be used successfully in practice as well as identifying various problematic aspects of UML and suggesting possible solutions **ACM Transactions on Software Engineering and Methodology** ,2003 **Algorithms and Computation** ,1998

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