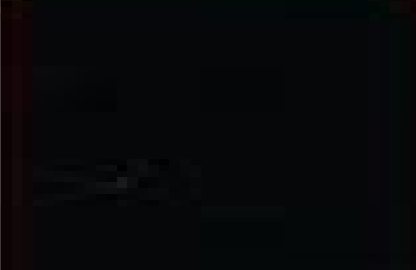
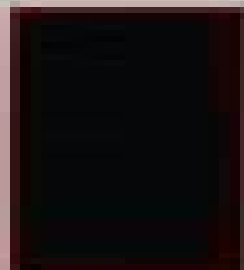


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FORMAL ENGINEERING METHODS

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Formal Engineering Methods Icfem 1998 2nd Ieee International Conference

Stan Budkowski, Ana Cavalli, Elie Najm



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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 also side 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

ZUM '98: The Z Formal Specification Notation Jonathan P. Bowen, Andreas Fett, Michael G. Hinchey, 1998-09-16 1 In a number of recent presentations most notably at FME 96 one of the foremost scientists in the field of formal methods C A R Hoare has highlighted the fact that formal methods are not the only technique for producing reliable software This seems to have caused some controversy not least amongst formal methods practitioners How can one of the founding fathers of formal methods seemingly denounce the field of research after over a quarter of a century of support This is a question that has been posed recently by some formal methods skeptics However Prof Hoare has not abandoned formal methods He is reiterating 2 albeit more radically his 1987 view that more than one tool and notation will be required in the practical industrial development of large scale complex computer systems and not all of these tools and notations will be or even need be formal in nature Formal methods are not a solution but rather one of a selection of techniques that have proven to be useful in the development of reliable complex systems and to result in hardware and software systems that can be produced on time and within a budget while satisfying the stated requirements After almost three decades the time has come to view formal methods in the context of overall industrial scale system development and their relationship to other techniques and methods 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

Formal Methods and Software Engineering Shaoying Liu, Tom Maibaum, Keijiro Araki, 2008-10-18 Formal

engineering methods are intended to offer effective means for integration of formal methods and practical software development technologies in the context of software engineering. Their purpose is to provide effective rigorous and systematic techniques for significant improvement of software productivity, quality, and tool supportability. In comparison with formal methods, a distinct feature of formal engineering methods is that they emphasize the importance of the balance between the qualities of simplicity, visualization, and preciseness for practicality. To achieve this goal, formal engineering methods must be developed on the basis of both formal methods and existing software technologies in software engineering, and they must serve the improvement of the software engineering process. ICFEM 2008 marks the tenth anniversary of the first ICFEM conference, which was held in Hiroshima in 1997. It aims to bring together researchers and practitioners who are interested in the development and application of formal engineering methods to present their latest work and discuss future research directions. The conference offers a great opportunity for researchers in both formal methods and software engineering to exchange their ideas, experience, expectations, and to find out whether and how their research results can help advance the state of the art.

Formal Engineering for Industrial Software Development Shaoying Liu, 2013-03-09 In any serious engineering discipline, it would be unthinkable to construct a large system without having a precise notion of what is to be built and without verifying how the system is expected to function. Software engineering is no different in this respect. Formal methods involve the use of mathematical notation and calculus in software development; such methods are difficult to apply to large-scale systems with practical constraints, e.g., limited developer skills, time, and budget restrictions, changing requirements. Here, Liu claims that formal engineering methods may bridge this gap. He advocates the incorporation of mathematical notation into the software engineering process, thus substantially improving the rigor, comprehensibility, and effectiveness of the methods commonly used in industry. This book provides an introduction to the SOFL (Structured Object Oriented Formal Language) method that was designed and industry tested by the author. Written in a style suitable for lecture courses or for use by professionals, there are numerous exercises and a significant real-world case study so that readers are provided with all the knowledge and examples needed to successfully apply the method in their own projects. **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. FME 2002: Formal Methods - Getting IT Right Lars-Henrik Eriksson, Peter A. Lindsay, 2003-08-02 This volume contains the proceedings of the 2002 symposium Formal Methods in Europe (FME 2002). The symposium was the 11th in a series that began with a VDM Europe symposium in 1987. The symposia

are traditionally held every 18 months In 2002 the symposium was held at the University of Copenhagen as part of the 2002 Federated Logic Conference FLoC 2002 which brought together in one event seven major conferences related to logic in computer science as well as their related workshops tutorials and tools exhibitions Formal Methods Europe www.fmeurope.org is an independent association which aims to stimulate the use of and research on formal methods for software development FME symposia have been notably successful in bringing together a community of users researchers and developers of precise mathematical methods for software development The theme of FME 2002 was Formal Methods Getting IT Right The double meaning was intentional On the one hand the theme acknowledged the significant contribution formal methods can make to Information Technology by enabling computer systems to be described precisely and reasoned about with rigour On the other hand it recognized that current formal methods are not perfect and further research and practice are required to improve their foundations applicability and effectiveness

Formal Description Techniques and Protocol Specification, Testing and Verification Stan Budkowski, Ana Cavalli, Elie Najm, 2013-04-17 Formal Description Techniques and Protocol Specification Testing and Verification addresses formal description techniques FDTs applicable to distributed systems and communication protocols It aims to present the state of the art in theory application tools and industrialization of FDTs Among the important features presented are FDT based system and protocol engineering FDT application to distributed systems Protocol engineering Practical experience and case studies Formal Description Techniques and Protocol Specification Testing and Verification comprises the proceedings of the Joint International Conference on Formal Description Techniques for Distributed Systems and Communication Protocols and Protocol Specification Testing and Verification sponsored by the International Federation for Information Processing held in November 1998 Paris France Formal Description Techniques and Protocol Specification Testing and Verification is suitable as a secondary text for a graduate level course on Distributed Systems or Communications and as a reference for researchers and practitioners in industry

Formal Methods and Software Engineering Shengchao Qin, Zongyan Qiu, 2011-10-12 This book constitutes the refereed proceedings of the 13th International Conference on Formal Engineering Methods ICFEM 2011 held in Durham UK October 2011 The 40 revised full papers together with 3 invited talks presented were carefully reviewed and selected from 103 submissions The papers address all current issues in formal methods and their applications in software engineering They are organized in topical sections on formal models model checking and probability specification and development security formal verification cyber physical systems event B verification analysis and testing refinement as well as theorem proving and rewriting

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

Extending the Reach of Statistical Software Testing Robert John Weber, 2004 Statistical software testing is a promising technique for reducing the software testing burden by applying test cases to the software under test according to a model of the expected usage of the system in operation called an operational profile However current statistical testing techniques have not been put into general practice as they do not scale well as the complexity of the systems under test increases In particular as system complexity increases the matrices required to generate test cases and perform model analysis can grow dramatically even exponentially overwhelming the test generation and analysis applications In this work a new technique for representing the operational profile is proposed to mitigate the complexity issue for statistical test case generation The use of a state based requirements specification model as the basis of the operational profile leverages parallelism to reduce the visible size of the model The specification model can then be extended to include conditional probabilities of input data occurrence This work also proposes a statistical testing framework using this specification based operational profile to generate and execute test cases Such a framework allows us to evaluate the effectiveness and efficiency of this statistical testing technique

Artificial Intelligence Applications for Improved Software Engineering Development: New Prospects Meziane, Farid, Vadera, Sunil, 2009-07-31 This book provides an overview of useful techniques in artificial intelligence for future software development along with critical assessment for further advancement Provided by publisher

Model-Based Testing for Embedded Systems Justyna Zander, Ina Schieferdecker, Pieter J. Mosterman, 2017-12-19 What the experts have to say about Model Based Testing for Embedded Systems This book is exactly what is needed at the exact right time in this fast growing area From its beginnings over 10 years ago of deriving tests from UML statecharts model based testing has matured into a topic with both breadth and depth Testing embedded systems is a natural application of MBT and this book hits the nail exactly on the head Numerous topics are presented clearly thoroughly and concisely in this cutting edge book The authors are world class leading experts in this area and teach us well used and validated techniques along with new ideas for solving hard problems It is rare that a book can take recent research advances and present them in a form ready for practical use but this book accomplishes that and more I am anxious to recommend this in my consulting and to teach a new class to my students Dr Jeff Offutt professor of software engineering George Mason University Fairfax Virginia USA This handbook is the best resource I am aware of on the automated testing of embedded systems It is thorough comprehensive and authoritative It covers all important technical and scientific aspects but also provides highly interesting insights into the state of practice of model based testing for embedded systems Dr Lionel C Briand IEEE Fellow Simula Research Laboratory Lysaker Norway and professor at the University of Oslo

Norway As model based testing is entering the mainstream such a comprehensive and intelligible book is a must read for anyone looking for more information about improved testing methods for embedded systems Illustrated with numerous aspects of these techniques from many contributors it gives a clear picture of what the state of the art is today Dr Bruno Legnard CTO of Smartesting professor of Software Engineering at the University of Franche Comte Besan on France and co author of Practical Model Based Testing

Formal Methods and Software Engineering Jin Song Dong, Jim Woodcock, 2003-10-27 This book constitutes the refereed proceedings of the 5th International Conference on Formal Engineering Methods ICFEM 2003 held in Singapore in November 2003 The 34 revised full papers presented together with 3 invited contributions were carefully reviewed and selected from 91 submissions The papers are organized in topical sections on testing and validation state diagrams PVS HOL refinement hybrid systems Z Object Z Petri nets timed automata system modelling and checking and semantics and synthesis

Unified Modeling Language: Systems Analysis, Design and Development Issues Siau, Keng, Halpin, Terry, 2000-07-01 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

Programming Languages and Systems Rocco De Nicola, 2007-07-16 This book constitutes the refereed proceedings of the 16th European Symposium on Programming ESOP 2007 held in Braga Portugal in March April 2007 It covers models and languages for Web services verification term rewriting language based security logics and correctness proofs static analysis and abstract interpretation semantic theories for object oriented languages process algebraic techniques applicative programming and types for systems properties

Computer Sciences Technical Report, 2004

Model-Based Testing of Reactive Systems Manfred Broy, Bengt Jonsson, Joost-Pieter Katoen, Martin Leucker, Alexander Pretschner, 2005-06-27 Testing is the primary hardware and software verification technique used by industry today Usually it is ad hoc error prone and very expensive In recent years however many attempts have been made to develop more sophisticated formal testing methods This coherent book provides an in depth assessment of this emerging field focusing on formal testing of reactive systems This book is based on a seminar held in Dagstuhl Castle Germany in January 2004 It presents 19 carefully reviewed and revised lectures given at the seminar in a well balanced way ensuring competent complementary coverage of all relevant aspects An appendix provides a glossary for model based testing and basics on finite state machines and on labelled transition systems The lectures are presented in topical sections on testing of finite state machines testing of labelled transition systems model based test case generation tools and case studies standardized test notation and execution architectures and beyond testing

Structured Object-Oriented Formal Language and Method Zhenhua Duan, Shaoying Liu, Cong Tian, Fumiko Nagoya, 2019-03-11 This book constitutes the thoroughly refereed workshop proceedings of the 8th International Workshop on Structured Object Oriented Formal Language and

Method SOFL MSVL 2018 held in Gold Coast QLD Australia in November 2018 The 11 revised full papers included in the volume were carefully reviewed and selected from 21 submissions They are organized in the following topical sections programming and testing verification and validation semantics and blockchain Integrated Formal Methods Wolfgang Grieskamp,Thomas Santen,Bill Stoddart,2007-10-23 **Advances in UML and XML-based Software Evolution** Hongji Yang,2005-01-01 Reports on the recent advances in UML and XML based software evolution in terms of a wider range of techniques and applications Provided by publisher

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