FORMAL DESCRIPTION TECHNIQUES

Editor | K.J. TURNER

North-Holland

Formal Description Techniques

Son T. Vuong

Formal Description Techniques:

    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 Description Techniques IX** R. Gotzhein,J. Bredereke,2016-01-09 This book is the combined proceedings of the latest IFIP Formal Description Techniques FDTs and Protocol Specification Testing and Verification PSTV series It addresses FDTs applicable to communication protocols and distributed systems with special emphasis on standardised FDTs It features state of the art in theory application tools and industrialisation of formal description   **Formal Description Techniques VII** D. Hogrefe,S. Leue,2016-01-09 This book presents the latest research in formal techniques for distributed systems including material on theory applications tools and industrial usage of formal techniques   Formal Description Techniques, IV K.R. Parker,G.A. Rose,2013-10-22 Formality is becoming accepted as essential in the development of complex systems such as multi layer communications protocols and distributed systems Formality is mandatory for mathematical verification a procedure being imposed on safety critical system development Standard documents are also becoming increasingly formalised in order to capture notions precisely and unambiguously This FORTE 91 proceedings volume has focussed on the standardised languages SDL Estelle and LOTOS while as with earlier conferences remaining open to other notations and techniques thus encouraging the continuous evolution of formal techniques This useful volume contains 29 submitted papers three invited papers four industry reports and four tool reports organised to correspond with the conference sessions   Formal Description Techniques VIII Gregor von Bochmann,Rachida Dssouli,Omar Rafiq,2016-01-09 This volume contains the latest worldwide research results on formal description techniques applicable to telecommunications covering their theoretical foundations industrial applications and practical usage The book presents the selected proceedings of the eighth International Conference on Formal Description Techniques arranged by the International Federation for Information Processing and held in Montreal Canada October 1995   Formal Description Techniques and Protocol Specification, Testing and Verification Atsushi Togashi,Tadanori Mizuno,Norio Shiratori,Teruo

Higashino,2013-06-05 FORTE PSTV 97 addresses Formal Description Techniques FDTs applicable to Distributed Systems and Communication Protocols such as Estelle LOTOS SDL ASN 1 TTCN Z Automata Process Algebra Logic The conference is a forum for presentation of the state of the art in theory application tools and industrialization of FDTs and provides an excellent orientation for newcomers **Formal Specification** Nimal Nissanke,2012-12-06 Formal Specification is a textbook for 2nd 3rd year undergraduate and postgraduate courses in Formal Methods which offers a practical and versatile approach to constructing specifications It covers both model based and algebraic approaches and emphasises the range of languages and approaches which are available Mathematical principles are explained using examples from everyday life like card games in order to demystify them and make them more comprehensible It includes unrivalled coverage of the topic including all important recent advances lots of exercises with model answers case studies to guide students through the main principles margin notes to identify key points Readers of this book do not have to be fully competent in formal specification it is written to be accessible to any student who wants to learn about the topic **Formal Description Techniques, II** Son T. Vuong,1990 Selected research papers collected in this volume cover various theoretical and practical aspects of Formal Description Techniques FDTs e g LOTOS Estelle SDL TTCN and ASN 1 for communications protocols The main subject areas covered by the papers are ndash Theoretical and practical aspects of analysing formal descriptions including translation implementation and test generation ndash Practical experience of using FDTs ndash Software tools to support the applications of FDTs ndash FDT language design issues and FDT extensions ndash Perspective on FDTs **FM'99 - Formal Methods** Jeannette M. Wing,Jim Woodcook,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 ofFM 99 alo side the papers describingapplicationsofformalmethods youwill ndtechnical reports papers andabstracts detailing new advances in formaltechniques 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 s cession re ects 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 programmecommittee re ects the Congress s international nature with a membership of 84 leading researchersfrom 38 di erent countries The comm tee was divided into 19 tracks each with its own chair to oversee the reviewing process Our collective task was a di cult one there were 259 high quality s missions from 35 di erent countries **FME '96: Industrial Benefit and Advances in Formal Methods**

Marie-Claude Gaudel,Jim Woodcock,1996-03-06 This book presents the refereed proceedings of the Third International Symposium of Formal Methods Europe FME 96 held in Oxford UK in March 1996 FME 96 was co sponsored by IFIP WG 14 3 and devoted to the application and demonstrated industrial benefit of formal methods their new horizons and strengthened foundations The 35 full revised papers included were selected from a total of 103 submissions also included are three invited papers The book addresses all relevant aspects of formal methods from the point of view of the industrial R D professional as well as from the academic viewpoint and impressively documents the significant progress in the use of formal methods for the solution of real world problems *Formal Description Techniques, III* Juan Quemada,Jose Mañas,Enrique Vázquez,1991 This proceedings contains a selection of papers covering the most relevant areas of application of standardized FDTs including ASNI Estelle LOTOS and SDL An extensive description of tools for FDTs is provided as well as applications related to implementation derivation design by stepwise refinement testing transformation formalization of standards industrial transfer and others A small number of papers dealing with language issues basic theoretical aspects of the target FDTs and comparisons between standardized FDTs and alternative approaches have also been included **FME 2001: Formal Methods for Increasing Software Productivity** Jose N. Oliveira,Pamela Zave,2003-06-29 FME 2001 is the tenth in a series of meetings organized every eighteen months by Formal Methods Europe FME an independent association whose aim is to stimulate the use of and research on formal methods for software development It follows four VDM Europe Symposia four other Formal Methods Europe S posia and the 1999 World Congress on Formal Methods in the Development of Computing Systems These meetings have been notably successful in bringing gether a community of users researchers and developers of precise mathematical methods for software development FME 2001 took place in Berlin Germany and was organized by the C puter Science Department of the Humboldt Universit at zu Berlin The theme of the symposium was Formal Methods for Increasing Software Productivity This theme recognizes that formal methods have the potential to do more for industrial software development than enhance software quality they can also increase productivity at many di erent points in the software life cycle The importance of the theme is borne out by the many contributed papers showing how formal methods can make software development more e cient There is an emphasis on tools that nd errors automatically or with relatively little human e ort There is also an emphasis on the use of formal methods to assist with critical labor intensive tasks such as program design and test case generation **Formal Description Techniques, VI** Richard L. Tenney,Paul D. Amer,M. Ümit Uyar,1994 This book is the sixth in a series of volumes concentrating on formal techniques applicable to distributed systems and protocols The initial focus on techniques standardized by ISO and CCITT Estelle LOTOS and SDL widened in previous volumes to for example CCS CSP ASN 1 Z Actor VDM and RAISE is yet again expanded A strong theoretical component is balanced by a practical one with papers included from the industrial as well as the academic communities Offering a comprehensive presentation of the state of the art in theory application tools and industrialization of formal techniques the

publication provides an excellent orientation for the newcomer By bringing together both researchers and practitioners it also opens the communication between these groups vital for a continued cross fertilization of knowledge and ideas for the future **Protocol Engineering** Hartmut König,2012-10-08 Communication protocols form the operational basis of computer networks and telecommunication systems They are behavior conventions that describe how communication systems interact with each other defining the temporal order of the interactions and the formats of the data units exchanged essentially they determine the efficiency and reliability of computer networks Protocol Engineering is an important discipline covering the design validation and implementation of communication protocols Part I of this book is devoted to the fundamentals of communication protocols describing their working principles and implicitly also those of computer networks The author introduces the concepts of service protocol layer and layered architecture and introduces the main elements required in the description of protocols using a model language He then presents the most important protocol functions Part II deals with the description of communication protocols offering an overview of the various formal methods the essence of Protocol Engineering The author introduces the fundamental description methods such as finite state machines Petri nets process calculi and temporal logics that are in part used as semantic models for formal description techniques He then introduces one representative technique for each of the main description approaches among others SDL and LOTOS and surveys the use of UML for describing protocols Part III covers the protocol life cycle and the most important development stages presenting the reader with approaches for systematic protocol design with various verification methods with the main implementation techniques and with strategies for their testing in particular with conformance and interoperability tests and the test description language TTCN The author uses the simple data transfer example protocol XDT eXample Data Transfer throughout the book as a reference protocol to exemplify the various description techniques and to demonstrate important validation and implementation approaches The book is an introduction to communication protocols and their development for undergraduate and graduate students of computer science and communication technology and it is also a suitable reference for engineers and programmers Most chapters contain exercises and the author s accompanying website provides further online material including a complete formal description of the XDT protocol and an animated simulation visualizing its behavior **Applications of Formal Methods** Michael Gerard Hinchey,Jonathan Peter Bowen,1995 This collection of case studies contains contributions illustrating the application of formal methods to real life problems with industrial relevance **ZUM '95: The Z Formal Specification Notation** Jonathan P. Bowen,1995-08-23 This book presents the proceedings of the 9th International Conference of Z Users ZUM 95 held in Limerick Ireland in September 1995 The book contains 34 carefully selected papers on Z using Z applications of Z proof testing industrial usage object orientation animation of specification method integration and teaching formal methods Of particular interest is the inclusion of an annotated Z bibliography listing 544 entries While focussing on Z by far the most commonly used formal method both in industry and

application the volume is of high relevance for the whole formal methods community *The Formal Description Technique Lotos* Peter H. J. van Eijk,Chris A. Vissers,Michel Diaz,1989 The SEDOS Software Environment for the Design of Open Distributed Systems project was supported by the Commission of the European Communities under the ESPRIT Programme It was divided into two main tasks related respectively to the two ISO formal description techniques Estelle and LOTOS which became international standards in September 1988 This book presents the work related to LOTOS It includes a tutorial on LOTOS a number of specifications in particular a specification of the OSI session layer Results in verification theory and descriptions of supporting software tools are given **Formal Description Techniques VII** D. Hogrefe,S. Leue,1995-02-28 This book presents the latest research in formal techniques for distributed systems including material on theory applications tools and industrial usage of formal techniques **Formal Description of Programming Concepts** Erich J. Neuhold,IFIP Technical Committee 2--Programming,1978 This conference was convened to explicate programming concepts through the development examination and comparison of various formal models of these concepts per the IFIP Working Group 2 2 on Formal Description and Programming Concepts This collection of 26 papers represents the results of that charge while the conference itself was characterized by lively discussions and conversations involving all participants which served to clarify and crystallize critical issues The editor hopes some of that liveliness will be communicated to the reader **Formal Techniques for Networked and Distributed Systems** ,2001

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Table of Contents Formal Description Techniques

1. Understanding the eBook Formal Description Techniques
    - The Rise of Digital Reading Formal Description Techniques
    - Advantages of eBooks Over Traditional Books
2. Identifying Formal Description Techniques
    - Exploring Different Genres
    - Considering Fiction vs. Non-Fiction
    - Determining Your Reading Goals
3. Choosing the Right eBook Platform
    - Popular eBook Platforms
    - Features to Look for in an Formal Description Techniques
    - User-Friendly Interface
4. Exploring eBook Recommendations from Formal Description Techniques

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