

Protocol Specification, Testing and Verification XIV

Edited by
**Son T. Vuong and
Samuel T. Chanson**



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Protocol Specification Testing And Verification Xiv

**Luigi Logrippo, Robert L.
Probert, Hasan Ural**



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Protocol Specification, Testing and Verification XIV S.T. Vuong, Samuel T. Chanson, 2013-11-11 This PSTV 94 Symposium is the fourteenth of a series of annual meetings organized under the auspices of IFIP W G 6 1 a Working Group dedicated to Architectures and Protocols for Computer Networks This is the oldest and most established symposium in the emerging field of protocol engineering which has spawn many international conferences including FORTE International Conference on Formal Description Tech niques IWPTS International Workshop on Protocol Test Systems ICNP Interna tional Conference on Network Protocols and CAY Conference on Computer Aided Verification The main objective of this PSTV symposium is to provide a forum for researchers and practitioners in industry and academia interested in advances in using formal methods and methodologies to specify develop test and verify communication protocols and distributed systems This year s PSTV symposium enjoys a nice mixture of formal methods and practical issues in network protocols through the invited addresses of three outstanding speakers Ed Brinksma University of Twente Raj Jain Ohio State University and David Tennenhouse MIT as well as 5 tutorials in addition to 9 techni cal sessions and two practical panel sessions The 5 tutorials are offered on the first day in two parallel tracks for intensive exposure on hot topics of current interest This year out of 51 submissions the Program Committee selected 18 regular papers with an allotment of 16 pages in the Proceedings and 9 mini papers of 8 pages

Protocol Specification, Testing and Verification XV Piotr Dembinski, Marek Sredniawa, 2016-01-09 This volume presents the latest research worldwide on communications protocols emphasizing specification and compliance testing It presents the complete proceedings of the fifteenth meeting on Protocol Specification Testing and Verification arranged by the International Federation for Information Processing

Protocol Specification, Testing and Verification XIV S.T. Vuong, Samuel T. Chanson, 2013-05-22 This PSTV 94 Symposium is the fourteenth of a series of annual meetings organized under the auspices of IFIP W G 6 1 a Working Group dedicated to Architectures and Protocols for Computer Networks This is the oldest and most established symposium in the emerging field of protocol engineering which has spawn many international conferences including FORTE International Conference on Formal Description Tech niques IWPTS International Workshop on Protocol Test Systems ICNP Interna tional Conference on Network Protocols and CAY Conference on Computer Aided Verification The main objective of this PSTV symposium is to provide a forum for researchers and practitioners in industry and academia interested in advances in using formal methods and methodologies to specify develop test and verify communication protocols and distributed systems This year s PSTV symposium enjoys a nice mixture of formal methods and practical issues in network protocols through the invited addresses of three outstanding speakers Ed Brinksma University of Twente Raj Jain Ohio State University and David Tennenhouse MIT as well as 5 tutorials in addition to 9 techni cal sessions and two practical panel sessions The 5 tutorials are offered on the first day in two parallel tracks for intensive exposure on hot topics of current interest This year out of 51 submissions the Program Committee selected 18 regular papers

with an allotment of 16 pages in the Proceedings and 9 mini papers of 8 pages

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 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

Testing of Communicating Systems XIV Ina Schieferdecker, Hartmut König, Adam Wolisz, 2013-06-05 Testing of Communicating Systems XIV presents the latest international results in both the theory and industrial practice of the testing of communicating systems ranging from tools and techniques for testing to test standards frameworks notations algorithms fundamentals of testing and industrial experiences and issues The tools and techniques discussed apply to conformance testing interoperability testing performance testing Internet protocols and applications and multimedia and distributed systems in general

Protocol Specification, Testing, and Verification, VI Concordia University, Université de Montréal, 1987

Electronic Chips & Systems Design Languages Jean Mermet, 2013-03-09 Electronic Chips Systems Design Languages outlines and describes the latest advances in design languages The challenge of System on a Chip SOC design requires designers to work in a multi lingual environment which is becoming increasingly difficult to master It is therefore crucial for them to learn almost in real time from the experiences of their colleagues in the use of design languages and how these languages have become more advanced to cope with system design System designers as well as students willing to become system designers often do not have the time to attend all scientific events where they could learn the necessary information This book will bring them a selected digest of the best contributions and industry strength case studies All the levels of abstraction that are relevant from the informal user requirements down to the implementation specifications are addressed by different contributors The author together with

colleague authors who provide valuable additional experience presents examples of actual industrial world applications Furthermore the academic concepts presented in this book provide excellent theories to student readers and the concepts described are up to date and in so doing provide most suitable root information for Ph D postgraduates Formale Beschreibungstechniken für verteilte Systeme ,1999

CONCUR'99. Concurrency Theory Jos C.M. Baeten,Sjouke Mauw,2003-07-31 This book constitutes the proceedings of the 10th International Conference on Concurrency Theory CONCUR 99 held in Eindhoven The Netherlands in August 1999 The 32 revised full papers presented together with four invited contributions were selected from a total of 91 submissions The papers address all areas of semantics logics and verification techniques for concurrent systems in particular process algebras Petri nets event structures real time systems hybrid systems stochastic systems decidability model checking verification refinement term and graph rewriting distributed programming logic constraint programming typing systems etc

Tools and Algorithms for the Construction and Analysis of Systems Tiziana Margaria,1996-03-20 This book presents the refereed proceedings of the Second International Workshop on Tools and Algorithms for the Construction and Analysis of Systems TACAS 96 held in Passau Germany in March 1996 The book presents 19 revised full papers selected from a total of 47 submissions together with 11 tool presentations and 3 invited papers The collection of papers addresses all current aspects of the design and analysis of distributed systems the volume is organized in topical sections on tools model checking and testing security models and methods case studies and logic and programs

Protocol Specification, Testing and Verification, X Luigi Logrippo,Robert L. Probert,Hasan Ural,1990 The contributions to this book are from researchers and practitioners concerned with the theory and application of formal methods to the specification testing and verification of protocols for open systems Being the tenth in a successful series of symposia a special feature of the book is a number of invited papers on the same theme The First Ten Years The Next Ten Years

Formal Methods for Distributed Processing Howard Bowman,John Derrick,2001-10-22 Originally published in 2002 this book presents techniques in the application of formal methods to object based distributed systems A major theme of the book is how to formally handle the requirements arising from OO distributed systems such as dynamic reconfiguration encapsulation subtyping inheritance and real time aspects These may be supported either by enhancing existing notations such as UML LOTOS SDL and Z or by defining fresh notations such as Actors Pi calculus and Ambients The major specification notations and modelling techniques are introduced and compared by leading researchers The book also includes a description of approaches to the specification of non functional requirements and a discussion of security issues Researchers and practitioners in software design object oriented computing distributed systems and telecommunications systems will gain an appreciation of the relationships between the major areas of concerns and learn how the use of object oriented based formal methods provides workable solutions

Protocol Engineering Hartmut König,2012-10-09 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 **SDL '97: Time for Testing**

Ana Cavalli, Amardeo Sarma, 1997-08-18 As Cavalli and Sarma astutely remarked in the introduction to this volume it is quite remarkable that SDL 97 may have the first participant younger than SDL itself SDL 97 provides the opportunity to reflect the course SDL has taken and why it has been successful over two decades where other languages addressing the same market have failed SDL now also has a permanent companion in MSC Message Sequence Charts MSC today is a language in its own right and has its areas of application both in conjunction with SDL and independently or in combination with other techniques MSC has strong structuring concepts to specify message sequences for large systems and can be used to develop scenarios which is extremely useful for test and design environments The SDL Forum today really is the SDL and MSC Forum

Formal Description Techniques IX R. Gotzhein, J. Brederke, 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

Protocol Specification and

Testing Katalin Tarnay, 2012-12-06 The increasing number of computer networks has aroused users interest in many and various fields of applications in how a computer network can be built and in how it may be used The fundamental rules of computer networks are the protocols A protocol is a set of rules that governs the operation of functional units to achieve communication STA 86 The book follows a practical approach to protocol specification and testing but at the same time it introduces clearly and precisely the relevant theoretical fundamentals The principal objectives of this work are to familiarize readers with communication protocols to present the main formal description techniques to apply various formal description techniques to protocol specification and testing It is considered that the readership will primarily consist of protocol developers protocol users and all who utilize protocol testers Secondly the book is suggested for postgraduate courses or other university courses dealing with communication networks and data communication A large part of the book provides a comprehensive overview for managers some parts are of especial interest to postal organizations The book consists of three parts the first part introduces the OS Reference Model it provides an overview of the most frequently used protocols and explains the fundamentals of protocol testing The second part familiarizes readers with the methods used for protocol specification generation and testing Finite state machines formal grammars Petri nets and some specification languages SDL ESTELLE LOTOS are discussed in a pragmatic style The third part deals with applications

Distributed

Applications and Interoperable Systems Hartmut König, Kurt Geihs, Thomas Preuss, 1997-09-30 Distribution and interoperability in heterogeneous computing environments are the key requirements for state of the art information processing systems Distributed applications are making a critical contribution in many application sectors such as office automation finance manufacturing telecommunications aerospace and transportation Users demand support for the construction integration and management of their application systems as well as for the interoperability of independent application components DAIS 97 provides a forum for researchers application designers and users to review discuss and learn about new approaches and concepts in the fields of distributed applications DAIS 97 will especially focus on the interoperability between different applications and services different implementations of the same and of different distributed platforms

Communication Protocol Specification and Verification

Richard Lai, Ajin Jirachiefpattana, 2012-12-06 Communication protocols are rules whereby meaningful communication can be exchanged between different communicating entities In general they are complex and difficult to design and implement Specifications of communication protocols written in a natural language e g English can be unclear or ambiguous and may be subject to different interpretations As a result independent implementations of the same protocol may be incompatible In addition the complexity of protocols make them very hard to analyze in an informal way There is therefore a need for precise and unambiguous specification using some formal languages Many protocol implementations used in the field have almost suffered from failures such as deadlocks

When the conditions in which the protocols work correctly have been changed there has been no general method available for determining how they will work under the new conditions. It is necessary for protocol designers to have techniques and tools to detect errors in the early phase of design because the later in the process that a fault is discovered the greater the cost of rectifying it. Protocol verification is a process of checking whether the interactions of protocol entities according to the protocol specification do indeed satisfy certain properties or conditions which may be either general e.g. absence of deadlock or specific to the particular protocol system directly derived from the specification. In the 80s an ISO International Organization for Standardization working group began a programme of work to develop formal languages which were suitable for Open Systems Interconnection (OSI). This group called such languages Formal Description Techniques (FDTs). Some of the objectives of ISO in developing FDTs were enabling unambiguous clear and precise descriptions of OSI protocol standards to be written and allowing such specifications to be verified for correctness. There are two FDTs standardized by ISO: LOTOS and Estelle. Communication Protocol Specification and Verification is written to address the two issues discussed above: the needs to specify a protocol using an FDT and to verify its correctness in order to uncover specification errors in the early stage of a protocol development process. The readership primarily consists of advanced undergraduate students, postgraduate students, communication software developers, telecommunication engineers, EDP managers, researchers and software engineers. It is intended as an advanced undergraduate or postgraduate textbook and a reference for communication protocol professionals.

A Journey from Process Algebra via Timed Automata to Model Learning

Nils Jansen, Mariëlle Stoelinga, Petra van den Bos, 2022-09-06. This Festschrift dedicated to Frits W. Vaandrager on the occasion of his 60th birthday contains papers written by many of his closest collaborators. Frits has been a Professor of Informatics for Technical Applications at Radboud University Nijmegen since 1995 where his research focuses on formal methods, concurrency theory, verification, model checking and automata learning. The volume contains contributions of colleagues, Ph.D. students and researchers with whom Frits has collaborated and inspired, reflecting a wide spectrum of scientific interests and demonstrating successful work at the highest levels of both theory and practice.

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