

Fias Protocol Specification

Communication Protocol Specification and Verification Protocol Specification, Testing, and Verification, VI Protocol Specification and Testing Protocol Specification, Testing and Verification, XII Communication Protocol Specification and Verification Protocol Specification, Testing, and Verification, XII Protocol Specification, Testing, and Verification, VIII Formal Description Techniques and Protocol Specification, Testing and Verification Protocol Specification, Testing, and Verification, IV Protocol Specification, Testing, and Verification, IX Protocol Specification and Testing Protocol Specification Report Protocol Specification and Testing Protocol Specification, Testing and Verification, X Protocol Specification, Testing, and Verification, V Protocol Specification, Testing, and Verification, IX Protocol Specification, Testing, and Verification, VI Protocol Specification, Testing, and Verification, VIII Protocol Specification, Testing, and Verification, VII Formal Methods for Communication Protocol Specification and Verification Richard Lai Concordia University Katalin Tarnay R.J. Linn Richard Lai R. J. Linn Sudhir Aggarwal Stan Budkowski Yechiam Yemini Ed Brinksma Katalin Tarnay Gerald A. Simon Katie Tarnay Luigi Logrippo Michel Diaz Ed Brinksma Concordia University Sudhir Aggarwal IFIP Working Group 6.1 Carl A. Sunshine

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Specification and Verification *Richard Lai Concordia University Katalin Tarnay R.J. Linn Richard Lai R. J. Linn Sudhir Aggarwal Stan Budkowski Yechiam Yemini Ed Brinksma Katalin Tarnay Gerald A. Simon Katie Tarnay Luigi Logrippo Michel Diaz Ed Brinksma Concordia University Sudhir Aggarwal IFIP Working Group 6.1 Carl A. Sunshine*

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 speci fication 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 5pecifica 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

for more than a decade researchers and engineers have been addressing the problem of the application of formal description techniques to protocol specification implementation testing and verification this book identifies the many successes that have been achieved within the industrial framework and the difficulties encountered in applying theoretical methods to practical situations issues discussed include testing and certification verification validation environments and automated tools formal specifications protocol conversion implementation specification languages and models consideration is also given to the concerns surrounding education available to students and the need to upgrade and develop this through

sponsorship of a study of an appropriate curriculum at both undergraduate and graduate levels it is hoped this publication will stimulate such support and inspire further research in this important arena

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

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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

hardbound this book covers research in protocol theory and analysis specification and formal models of protocols protocol validation and verification performance analysis of protocols and protocol design implementation and testing main features 1 broad coverage of the research in
t h e a r e a o f c o m p u t e r c o m m u n i c a t i o n p r o t o c o l s 2 a

experimental research on protocol modelling design analysis synthesis verification and testing
3 a description of international research activities conducted by leading rese
field from over 13 countries

researchers and practitioners concerned with the application of formal methods to the design
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this document presents a set of guidelines for precise specification of communication protocol
services and mechanisms first the requirements for a complete protocol specification are
outlined based on these requirements a conceptual framework for a protocol specification is
discussed a description of each of the components of a protocol specification is then
presented along with a description of the protocol specification format and syntax

requirements the specification approach incorporates an extended finite state machine technique for formal definition of protocol services and mechanisms author

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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

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increasingly numerous and complex communication protocols are being employed in

distributed systems and computer networks of all types this note describes some of the more formal techniques that are being developed to facilitate design of correct protocols our major conclusion is that it is vital to specify the services provided by a protocol layer in addition to specifying the cooperating protocol entities which make up the layer we develop service specifications of several representative protocols by using formal techniques from software engineering such as abstract machines and buffer histories a survey of protocol verification methods and a bibliography indexed by key phrases are also provided author

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