



Formal Methods for Embedded Distributed Systems

How to master the complexity

Edited by
Fabrice Kordon and Michel Lemoine

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Formal Methods For Embedded Distributed Systems

Elvira Albert, Ivan Lanese



Formal Methods For Embedded Distributed Systems:

Formal Methods for Embedded Distributed Systems Fabrice Kordon, Michel Lemoine, 2004 The development of any Software Industrial Intensive System e g critical embedded software requires both different notations and a strong development process Different notations are mandatory because different aspects of the Software System have to be tackled A strong development process is mandatory as well because without a strong organization we cannot warrantee the system will meet its requirements Unfortunately much more is needed Formal Methods for Embedded Distributed Systems is dedicated to the presentation of some techniques to be used in the context of distributed and or embedded systems Since formal techniques rely on models i e different descriptions of the system to be designed the presented techniques are located in the first part of software development Formal Methods for Embedded Distributed Systems makes many connections between traditional development approaches and the latest developments in formal techniques that are known as the best solution to significantly increase the reliability of such systems The target audience is mainly composed of professionals engineers researchers and teachers and students graduated and postgraduated who want to have a clear understanding of how to manage the inherent complexity of critical and or distributed systems Formal Methods for Embedded Distributed Systems Fabrice Kordon, Michel Lemoine, 2007-05-08 The development of any Software Industrial Intensive System e g critical embedded software requires both different notations and a strong development process Different notations are mandatory because different aspects of the Software System have to be tackled A strong development process is mandatory as well because without a strong organization we cannot warrantee the system will meet its requirements Unfortunately much more is needed The different notations that can be used must all possess at least one property formality The development process must also have important properties a exhaustive coverage of the development phases and a set of well integrated support tools In Computer Science it is now widely accepted that only formal notations can guarantee a perfect defined meaning This becomes a more and more important issue since software systems tend to be distributed in large systems for instance in safe public transportation systems and in small ones for instance numerous processors in luxury cars Distribution increases the complexity of embedded software while safety criteria get harder to be met On the other hand during the past decade Software Engineering techniques have been improved a lot and are now currently used to conduct systematic and rigorous development of large software systems UML has become the de facto standard notation for documenting Software Engineering projects UML is supported by many CASE tools that offer graphical means for the UML notation *Formal Techniques for Networked and Distributed Systems - FORTE 2005* Farn Wang, 2005-09-26 This book constitutes the refereed proceedings of the 25th IFIP WG 6.1 International Conference on Formal Techniques for Networked and Distributed Systems FORTE 2005 held in Taipei Taiwan in October 2005 The 33 revised full papers and 6 short papers presented together with 3 keynote speeches were carefully reviewed and selected from 88 submissions The papers cover all

current aspects of formal methods for distributed systems and communication protocols such as formal description techniques MSC UML Use cases semantic foundations model checking SAT based techniques process algebrae abstractions protocol testing protocol verification network synthesis security system analysis network robustness embedded systems communication protocols and several promising new techniques

Formal Methods for Distributed System

Development Tommaso Bolognesi, Diego Latella, 2013-03-20 The 20 anniversary of the IFIP WG6 1 Joint International Conference on Formal Methods for Distributed Systems and Communication Protocols FORTE XIII PSTV XX was celebrated by the year 2000 edition of the Conference which was held for the first time in Italy at Pisa October 10 13 2000 In devising the subtitle for this special edition Formal Methods Implementation Under Test we wanted to convey two main concepts that in our opinion are reflected in the contents of this book First the early pioneering phases in the development of Formal Methods FM s with their conflicts between evangelistic and agnostic attitudes with their over optimistic applications to toy examples and over skeptical views about scalability to industrial cases with their misconceptions and myths all this is essentially over Many FM s have successfully reached their maturity having been implemented into concrete development practice a number of papers in this book report about successful experiences in specifying and verifying real distributed systems and protocols Second one of the several myths about FM s the fact that their adoption would eventually eliminate the need for testing is still quite far from becoming a reality and again this book indicates that testing theory and applications are still remarkably healthy A total of 63 papers have been submitted to FORTEIPSTV 2000 out of which the Programme Committee has selected 22 for presentation at the Conference and inclusion in the Proceedings

Formal Methods for Open Object-Based

Distributed Systems Marcello M. Bonsangue, Einar Broch Johnsen, 2007-06-27 This book constitutes the refereed proceedings of the 9th IFIP WG 6 1 International Conference on Formal Methods for Open Object Based Distributed Systems FMOODS 2007 held in Paphos Cyprus June 2007 The 17 revised full papers presented together with two invited papers cover model checking rewriting logic components and services algebraic calculi specification verification and refinement and quality of service

Formal Techniques for Networked and Distributed Systems Myungchul Kim, Byoungmoon Chin, Sungwon Kang, Danhyung Lee, 2006-04-11 FORTE 2001 formerly FORTE PSTV conference is a combined conference of FORTE Formal Description Techniques for Distributed Systems and Communication Protocols and PSTV Protocol Specification Testing and Verification conferences This year the conference has a new name FORTE Formal Techniques for Networked and Distributed Systems The previous FORTE began in 1989 and the PSTV conference in 1981 Therefore the new FORTE conference actually has a long history of 21 years The purpose of this conference is to introduce theories and formal techniques applicable to various engineering stages of networked and distributed systems and to share applications and experiences of them This FORTE 2001 conference proceedings contains 24 refereed papers and 4 invited papers on the subjects We regret that many good papers submitted could not be published in this volume due to the lack of space FORTE 2001 was organized under the

auspices of IFIP WG 6.1 by Information and Communications University of Korea. It was financially supported by Ministry of Information and Communication of Korea. We would like to thank every author who submitted a paper to FORTE 2001 and thank the reviewers who generously spent their time on reviewing. Special thanks are due to the reviewers who kindly conducted additional reviews for rigorous review process within a very short time frame. We would like to thank Prof Guy Leduc, the chairman of IFIP WG 6.1 who made valuable suggestions and shared his experiences for conference organization.

Formal Methods for Protocol Engineering and Distributed Systems Jianping Wu, Samuel T. Chanson, Quiang Gao, 2013-06-05. Formal Methods for Protocol Engineering and Distributed Systems 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 Methods for Protocol Engineering and Distributed Systems contains the proceedings of the Joint International Conference on Formal Description Techniques for Distributed Systems and Communication Protocols and Protocol Specification Testing and Verification, which was sponsored by the International Federation for Information Processing (IFIP) and was held in Beijing, China, in October 1999. This volume is suitable as a secondary text for a graduate level course on Distributed Systems or Communications and as a reference for researchers and industry practitioners.

Formal Techniques for Networked and Distributed Systems - FORTE 2004 David de Frutos-Escrig, Manuel Nunez, 2004-09-09. This book constitutes the refereed proceedings of the 24th IFIP WG 6.1 International Conference on Formal Techniques for Networked and Distributed Systems (FORTE 2004) held in Madrid, Spain, in September 2004. The 20 revised full papers presented together with 3 invited papers were carefully reviewed and selected from 54 submissions. Among the topics addressed are state-based specification, distributed Java objects, UML and SDL, algorithm verification, communicating automata, design recovery, formal protocol testing, testing and model checking, distributed real-time systems, formal composition, distributed testing, automata for ACTL, symbolic state space representation, π -calculus, concurrency, Petri nets, routing, protocol verification, and intrusion detection.

Formal Methods for Open Object-Based Distributed Systems Gilles Barthe, Frank S. de Boer, 2008-05-29. This book constitutes the refereed proceedings of the 10th IFIP WG 6.1 International Conference on Formal Methods for Open Object-Based Distributed Systems (FMOODS 2008) held in Oslo, Norway, in June 2008. The 14 revised full papers presented together with 1 invited lecture were carefully reviewed and selected from 35 submissions. The papers cover topics such as semantics of object-oriented programming, formal techniques for specification analysis and refinement, model checking, theorem proving, and deductive verification, type systems and behavioral typing, formal methods for service-oriented computing, integration of quality of service requirements into formal models, formal approaches to component-based design, and applications of formal methods.

Formal Techniques for Distributed Systems John Hatcliff, Elena Zucca, 2010-06-07. This book constitutes the

refereed proceedings of the 12th IFIP WG 6.1 International Conference on Formal Methods for Open Object Based Distributed Systems FMOODS 2010 and the 30th IFIP WG 6.1 Formal Techniques for Networked and Distributed Systems FORTE 2010 held in Amsterdam The Netherlands in June 2010 The 13 revised full papers presented together with 6 short papers and the abstract of one invited talk were carefully reviewed and selected from 38 submissions The papers are organized in topical sections on formal UML modeling components and architecture timed process algebra timed and hybrid automata program logics and analysis and reasoning about distributed systems Formal Techniques for Networked and Distributed Systems - FORTE 2006 Elie Najm, Jean-Francois Pradat-Peyre, Véronique Viguié Donzeau-Gouge, 2006-10-04 This book constitutes the refereed proceedings of the 26th IFIP WG 6.1 International Conference on Formal Techniques for Networked and Distributed Systems FORTE 2006 held in Paris France in September 2006 The 26 revised full papers and 4 short papers presented together with 3 invited lectures were carefully reviewed and selected from 177 submissions The papers focus on the construction of middleware and services using formalised and verified approaches *Formal Methods for Open Object-Based Distributed Systems* Elie Najm, Uwe Nestmann, Perdita Stevens, 2003-11-24 This volume contains the proceedings of FMOODS 2003 the 6th IFIP WG 6.1 International Conference on Formal Methods for Open Object Based Distributed Systems The conference was held in Paris France on November 19-21 2003 The event was the sixth meeting of this conference series which is held roughly every year and a half the earlier events having been held in Paris Canterbury Florence Stanford and Twente The goal of the FMOODS series of conferences is to bring together researchers whose work encompasses three important and related fields formal methods distributed systems object based technology Such a convergence is representative of recent advances in the field of distributed systems and provides links between several scientific and technological communities as represented by the conferences FORTE PSTV CONCUR and ECOOP The objective of FMOODS is to provide an integrated forum for the presentation of research in the above mentioned fields and the exchange of ideas and experiences in the topics concerned with the formal methods support for open object based distributed systems For the call for papers aspects of interest of the considered systems included but were not limited to formal models formal techniques for specification design or analysis component based design verification testing and validation semantics of programming coordination or modeling languages type systems for programming coordination or modelling languages behavioral typing multiple viewpoint modelling and consistency between different models transformations of models integration of quality of service requirements into formal models formal models for security and applications and experience carefully described *Formal Techniques for Distributed Objects, Components, and Systems* Susanne Graf, Mahesh Viswanathan, 2015-05-05 This book constitutes the proceedings of the 35th IFIP WG 6.1 International Conference on Formal Techniques for Distributed Objects Components and Systems FORTE 2015 held in Grenoble France in June 2015 as part of the 10th International Federated Conference on Distributed Computing Techniques DisCoTec 2015 The 15 revised full

papers presented were carefully reviewed and selected from 53 submissions The papers present a wide range of topics on distributed computing models and formal specification testing and verification methods

Formal Techniques for Distributed Objects, Components, and Systems Ahmed Bouajjani,Alexandra Silva,2017-06-06 This book constitutes the proceedings of the 37th IFIP WG 6.1 International Conference on Formal Techniques for Distributed Objects Components and Systems FORTE 2017 held in Neuchâtel Switzerland in June 2017 as part of the 12th International Federated Conference on Distributed Computing Techniques DisCoTec 2017 The 13 revised full papers presented together with 3 short and 1 tool papers were carefully reviewed and selected from 30 submissions The papers present a wide range of topics on distributed computing models and formal specification testing and verification methods

Formal Techniques for Distributed Objects, Components, and Systems Elvira Albert,Ivan Lanese,2016-05-23 This book constitutes the proceedings of the 36th IFIP WG 6.1 International Conference on Formal Techniques for Distributed Objects Components and Systems FORTE 2016 held in Heraklion Crete Greece in June 2016 as part of the 11th International Federated Conference on Distributed Computing Techniques DisCoTec 2016 The 18 revised full papers presented were carefully reviewed and selected from 44 submissions The papers present a wide range of topics on distributed computing models and formal specification testing and verification methods

Formal Methods for Open Object-Based Distributed Systems IV Scott F. Smith,Carolyn L. Talcott,2012-08-10 Formal Methods for Open Object Based Distributed Systems IV presents the leading edge in the fields of object oriented programming open distributed systems and formal methods for object oriented systems With increased support within industry regarding these areas this book captures the most up to date information on the subject Papers in this volume focus on the following specific technologies components mobile code Java The Unified Modeling Language UML refinement of specifications types and subtyping temporal and probabilistic systems This volume comprises the proceedings of the Fourth International Workshop on Formal Methods for Open Object Based Distributed Systems FMOODS 2000 which was sponsored by the International Federation for Information Processing IFIP and held in Stanford California USA in September 2000

Formal Methods for Open Object-based Distributed Systems Howard Bowman,John Derrick,2016-01-09 This book presents the leading edge in several related fields specifically object orientated programming open distributed systems and formal methods for object oriented systems With increased support within industry regarding these areas this book captures the most up to date information on the subject Many topics are discussed including the following important areas object oriented design and programming formal specification of distributed systems open distributed platforms types interfaces and behaviour formalisation of object oriented methods

Formal Methods for Open Object-Based Distributed Systems Paolo Ciancarini,Alessandro Fantechi,Roberto Gorrieri,1999-02-28 Formal Methods for Open Object Based Distributed Systems presents the leading edge in several related fields specifically object orientated programming open distributed systems and formal methods for object oriented systems With increased support within industry regarding these areas this

book captures the most up to date information on the subject Many topics are discussed including the following important areas object oriented design and programming formal specification of distributed systems open distributed platforms types interfaces and behaviour formalisation of object oriented methods This volume comprises the proceedings of the International Workshop on Formal Methods for Open Object based Distributed Systems FMOODS sponsored by the International Federation for Information Processing IFIP which was held in Florence Italy in February 1999 Formal Methods for Open Object Based Distributed Systems is suitable as a secondary text for graduate level courses in computer science and telecommunications and as a reference for researchers and practitioners in industry commerce and government

Formal Methods for Open Object-Based Distributed Systems V Bart Jacobs,Arend Rensink,2013-04-17 Formal Methods for Open Object Based Distributed Systems V brings together research in three important and related fields Formal methods Distributed systems Object based technology Such a convergence is representative of recent advances in the field of distributed systems and provides links between several scientific and technological communities The wide scope of topics covered in this volume range in subject from UML to object based languages and calculi and security and in approach from specification to case studies and verification This volume comprises the proceedings of the Fifth International Conference on Formal Methods for Open Object Based Distributed Systems FMOODS 2002 which was sponsored by the International Federation for Information Processing IFIP and held in Enschede The Netherlands in March 2002

Formal Techniques for Networked and Distributed Systems - FORTE 2007 John Derrick,Jüri Vain,2007-06-12 This book constitutes the refereed proceedings of the 27th IFIP WG 6.1 International Conference on Formal Techniques for Networked and Distributed Systems FORTE 2007 held in Tallinn Estonia in September 2007 co located with TestCom FATES 2007 It covers service oriented computing and architectures using formalized and verified approaches

Adopting the Beat of Expression: An Psychological Symphony within **Formal Methods For Embedded Distributed Systems**

In a global taken by monitors and the ceaseless chatter of immediate connection, the melodic beauty and psychological symphony developed by the published term usually disappear into the background, eclipsed by the relentless noise and interruptions that permeate our lives. However, set within the pages of **Formal Methods For Embedded Distributed Systems** a marvelous literary value filled with raw feelings, lies an immersive symphony waiting to be embraced. Constructed by an elegant composer of language, that charming masterpiece conducts readers on an emotional journey, skillfully unraveling the hidden songs and profound affect resonating within each cautiously crafted phrase. Within the depths of this touching evaluation, we will examine the book is key harmonies, analyze its enthralling writing style, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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