

LOTOSphere: Software Development with LOTOS

Edited by
Tommaso Bolognesi,
Jeroen van de Lagemaat
and Chris Vissers

The logo features the word "LOTOSPHERE" in a stylized, serif font. The letters are arranged within a dark, oval-shaped background that has a subtle, textured appearance, possibly representing a globe or a sphere. The text is light-colored, contrasting with the dark background.

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Lotosphere Software Development With Lotos

Muffy Calder, Evan Magill



Lotosphere Software Development With Lotos:

LOTOSphere: Software Development with LOTOS Tommaso Bolognesi, Jeroen van de Lagemaat, Chris Vissers, 2012-12-06 LOTOS Language Of Temporal Ordering Specification became an international standard in 1989 although application of preliminary versions of the language to communication services and protocols of the ISO OSI family dates back to 1984 This history of the use of LOTOS made it apparent that more advantages than the pure production of standard reference documents were to be expected from the use of such formal description techniques LOTOSphere Software Development with LOTOS describes in depth a five year project that moved LOTOS out of the ISO tower into software engineering practice LOTOS became a vehicle for efficient yet formally based industrial software specification design verification implementation and testing LOTOSphere Software Development with LOTOS is divided into six parts The first introduces the reader to LOTOS and the project LOTOSphere The five remaining each treat an important part of the software development life cycle using LOTOS This is the first book to give a comprehensive treatment of the use of these formal description techniques in a software engineering environment It will thus be a valuable reference for researchers and software developers and can also be used as a text for an advanced course on the subject

FME 2001: Formal Methods for Increasing Software Productivity Jose N. Oliveira, 2001-02-28 This book constitutes the refereed proceedings of the International Symposium of Formal Methods Europe FME 2001 held in Berlin Germany in March 2001 The 32 revised full papers presented together with abstracts of three invited talks were carefully reviewed and selected from a total of 72 submissions Focusing on increasing software productivity all current aspects in formal methods are covered Among the application areas addressed are avionics smart cards financial engineering E commerce middleware security telecommunications etc

Feature Interactions in Telecommunications and Software Systems VI Muffy Calder, Evan Magill, 2000 Typically telecommunications services are implemented in software Feature interaction is the term used to describe interference between services or features most attention is given to cases where the interference is undesirable ie there is an incompatibility In telecommunications control and data is distributed and on such a large scale that software development is by numerous disjoint teams by its nature therefore this software experienced the feature interaction problem first But while the workshop focuses on communications services the subject has relevance to any domain where separate software entities control a shared resource

Formal Methods for Open Object-Based Distributed Systems Martin Steffen, Gianluigi Zavattaro, 2005-06-03 This book constitutes the refereed proceedings of the 7th IFIP WG 6.1 International Conference on Formal Methods for Open Object Based Distributed Systems FMOODS 2005 held in Athens Greece on June 15 17 2005 The FMOODS conference was held as a joint event in federation with the 5th IFIP WG 6.1 International Conference on Distributed Applications and Interoperable Systems DAIS 2005 The 19 revised full papers presented together with an invited paper were carefully reviewed and selected from 91 submissions The papers are organized in topical sections on

models and calculi UML security composition and verification analysis of java programs Web services specification and verification

Models, Algebras and Logic of Engineering Software Manfred Broy, Markus Pizka, 2003 This volume focuses on the education of researchers teachers students and practitioners As usual in engineering a study and application of the relevant branches of mathematics is crucial both in education and practice

Model-Based Testing of Reactive Systems Manfred Broy, Bengt Jonsson, Joost-Pieter Katoen, Martin Leucker, Alexander Pretschner, 2005-07-11 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

ModelEd, TestEd, TrustEd Joost-Pieter Katoen, Rom Langerak, Arend Rensink, 2017-10-16 This Festschrift volume has been published in honor of Ed Brinksma on the occasion of his 60th birthday The contributions in this Festschrift are written by a number of Ed s former Ph D students and collaborators The papers are a reflection on his research contributions and interests and all fall into the area of formal methods or in Ed s terminology applied mathematics in computer science The papers address modeling languages and semantics model based testing verification and performance analysis probabilistic computation system dynamics and applications of formal methods

Tools and Algorithms for the Construction and Analysis of Systems Ed Brinksma, 1997-03-20 This book constitutes the refereed proceedings of the Third International Workshop on Tools and Algorithms for the Construction and Analysis of Systems TACAS 97 held in Enschede The Netherlands in April 1997 The book presents 20 revised full papers and 5 tool demonstrations carefully selected out of 54 submissions also included are two extended abstracts and a full paper corresponding to invited talks The papers are organized in topical sections on space reduction techniques tool demonstrations logical techniques verification support specification and analysis and theorem proving model checking and applications

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

Integrated

Formal Methods Michael Butler, Luigia Petre, Kaisa Sere, 2002-05-02 The third in a series of international conferences on Integrated Formal Methods IFM 2002 was held in Turku Finland May 15-17 2002 Turku situated in the south western corner of the country is the former capital of Finland The conference was organized jointly by Abo Akademi University and Turku Centre for Computer Science The theme of IFM 1999 was the integration of state and behavioral based formalisms For IFM 2000 this was widened to include all aspects pertaining to the integration of formal methods and formal notations One of the goals of IFM 2002 was to further investigate these themes Moreover IFM 2002 explored the relations between formal methods and graphical notations especially the industrial standard language for software design the Unified Modeling Language UML The themes of IFM 2002 reflect what we believe is a growing trend in the Formal Methods and Software Engineering research communities Over the last three decades computer scientists have developed a range of formalisms focusing on particular aspects of behavior or analysis such as sequential program structures concurrent program structures data and information structures temporal reasoning deductive proof and model checking Much effort is now being devoted to integrating these methods in order to combine their advantages and ensure they scale up to industrial needs Graphical notations are now widely used in software engineering and there is growing recognition of the importance of providing these with the formal underpinnings and formal analysis capabilities found in formal methods

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Lotosphere Software Development With Lotos Introduction

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