

# Lecture Notes in Computer Science

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430

J.W. de Bakker W-P. de Roever  
G. Rozenberg (Eds.)

## Stepwise Refinement of Distributed Systems

Models, Formalisms, Correctness

REX Workshop, Mook, The Netherlands, May/June 1988  
Proceedings



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# Stepwise Refinement Of Distributed Systems Models Formalisms Correctness Proceedings Lecture Notes In Computer Science 43

**Phillip A. Laplante**



## **Stepwise Refinement Of Distributed Systems Models Formalisms Correctness Proceedings Lecture Notes In Computer Science 43:**

**Stepwise Refinement of Distributed Systems** Jaco W. de Bakker, Willem-Paul de Roever, Grzegorz

Rozenberg, 1990-04-25 The stepwise refinement method postulates a system construction route that starts with a high level specification goes through a number of provably correct development steps and ends with an executable program The contributions to this volume survey the state of the art in this extremely active research area The world's leading specialists in concurrent program specification verification and the theory of their refinement present latest research results and surveys of the fields State based algebraic temporal logic oriented and category theory oriented approaches are presented Special attention is paid to the relationship between compositionality and refinement for distributed programs Surveys are given of results on refinement in partial order based approaches to concurrency A unified treatment is given of the assumption commitment paradigm in compositional concurrent program specification and verification and the extension of these to liveness properties Latest results are presented on specifying and proving concurrent data bases correct and deriving network protocols from their specifications

**From Action Systems to Distributed Systems** Luigia Petre, Emil

Sekerinski, 2016-04-27 Formal methods traditionally address the question of transforming software engineering into a mature engineering discipline This essentially refers to trusting that the software intensive systems that form our society's infrastructures are behaving according to their specifications More recently formal methods are also used to understand property

*A Decade of Concurrency* J.W.de Bakker, W.-P.de Roever, G. Rozenberg, 1994-06-28 The REX School Symposium A Decade of Concurrency Reflections and Perspectives was the final event of a ten year period of cooperation between three Dutch research groups working on the foundations of concurrency Ever since its inception in 1983 the goal of the project has been to contribute to the cross fertilization between formal methods from the fields of syntax semantics and proof theory aimed at an improved understanding of the nature of parallel computing The material presented in this volume was prepared by the lecturers and their coauthors after the meeting took place In total the volume constitutes a thorough state of the art report of the research activities in concurrency

Petri Net Algebra Eike Best, Raymond Devillers, Maciej Koutny, 2001-01-26

In modern society services and support provided by computer based systems have become ubiquitous and indeed have started to fundamentally alter the way people conduct their business Moreover it has become apparent that among the great variety of computer technologies available to potential users a crucial role will be played by concurrent systems The reason is that many commonly occurring phenomena and computer applications are highly concurrent typical examples include control systems computer networks digital hardware business computing and multimedia systems Such systems are characterised by ever increasing complexity which results when large numbers of concurrently active components interact This has been recognised and addressed within the computing science community In particular several formal models of

concurrent systems have been proposed studied and applied in practice This book brings together two of the most widely used formalisms for describing and analysing concurrent systems Petri nets and process algebras On the one hand process algebras allow one to specify and reason about the design of complex concurrent computing systems by means of algebraic operators corresponding to common programming constructs Petri nets on the other hand provide a graphical representation of such systems and an additional means of verifying their correctness efficiently as well as a way of expressing properties related to causality and concurrency in system behaviour

Encyclopedia of Software Engineering Three-Volume Set (Print) Phillip A. Laplante, 2010-11-22 Software engineering requires specialized knowledge of a broad spectrum of topics including the construction of software and the platforms applications and environments in which the software operates as well as an understanding of the people who build and use the software Offering an authoritative perspective the two volumes of the Encyclopedia of Software Engineering cover the entire multidisciplinary scope of this important field More than 200 expert contributors and reviewers from industry and academia across 21 countries provide easy to read entries that cover software requirements design construction testing maintenance configuration management quality control and software engineering management tools and methods Editor Phillip A Laplante uses the most universally recognized definition of the areas of relevance to software engineering the Software Engineering Body of Knowledge SWEBOK as a template for organizing the material Also available in an electronic format this encyclopedia supplies software engineering students IT professionals researchers managers and scholars with unrivaled coverage of the topics that encompass this ever changing field Also Available Online This Taylor E mail e reference taylorandfrancis com International Tel 44 0 20 7017 6062 E mail online sales tandf co uk

**Handbook of Process Algebra** J.A. Bergstra, A. Ponse, S.A. Smolka, 2001-03-16 Process Algebra is a formal description technique for complex computer systems especially those involving communicating concurrently executing components It is a subject that concurrently touches many topic areas of computer science and discrete math including system design notations logic concurrency theory specification and verification operational semantics algorithms complexity theory and of course algebra This Handbook documents the fate of process algebra since its inception in the late 1970 s to the present It is intended to serve as a reference source for researchers students and system designers and engineers interested in either the theory of process algebra or in learning what process algebra brings to the table as a formal system description and verification technique The Handbook is divided into six parts spanning a total of 19 self contained Chapters The organization is as follows Part 1 consisting of four chapters covers a broad swath of the basic theory of process algebra Part 2 contains two chapters devoted to the sub specialization of process algebra known as finite state processes while the three chapters of Part 3 look at infinite state processes value passing processes and mobile processes in particular Part 4 also three chapters in length explores several extensions to process algebra including real time probability and priority The four chapters of Part 5 examine non interleaving process algebras while Part 6 s three chapters address

process algebra tools and applications      *Deductive Program Design* Manfred Broy, 1996-06-18 Advanced research on the description of distributed systems and on design calculi for software and hardware is presented in this volume Distinguished researchers give an overview of the latest state of the art      *Journal of the ACM*, 1996      □□□□□□□□, 1990      *Application and Theory of Petri Nets 2002* Javier Esparza, Charles Lakos, 2003-08-02      **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      **Anforderungsspezifikation durch Transitionssysteme und Szenarien** Cornel Klein, 1998

**Bibliographic Guide to Computer Science**, 1990      *Whitaker's Books in Print*, 1998      Stepwise Refinement of Distributed Systems, 1990      *Stepwise Refinement of Distributed Systems*, 1990      **Verzeichnis lieferbarer Bücher**, 2002      Integrated Model of Distributed Systems Wiktor B. Daszczuk, 2019-03-16 In modern distributed systems such as the Internet of Things or cloud computing verifying their correctness is an essential aspect This requires modeling approaches that reflect the natural characteristics of such systems the locality of their components autonomy of their decisions and their asynchronous communication However most of the available verifiers are unrealistic because one or more of these features are not reflected Accordingly in this book we present an original formalism the Integrated Distributed Systems Model IMDS which defines a system as two sets states and messages and a relation of the actions between these sets The server view and the traveling agent's view of the system provide communication duality while general temporal formulas for the IMDS allow automatic verification The features that the model checks include partial deadlock and partial termination communication deadlock and resource deadlock Automatic verification can support the rapid development of distributed systems Further on the basis of the IMDS the Dedan tool for automatic verification of distributed systems has been developed      **Formal Techniques for Distributed Objects, Components, and Systems** Christel Baier, Luís Caires, 2018-05-29 This book constitutes the proceedings of the 38th IFIP WG 6.1 International Conference on Formal Techniques for Distributed Objects Components and Systems FORTE 2018 held in Madrid Spain in June 2018 as part of the 13th International Federated Conference on Distributed Computing Techniques DisCoTec 2018 The 10 full papers presented were carefully reviewed and selected from 28 submissions The conference is dedicated to fundamental research on theory models tools and applications for distributed systems      **Models and Analysis for Distributed Systems** Serge Haddad, Fabrice Kordon, Laurent

Pautet, Laure Petrucci, 2013-02-07 Nowadays distributed systems are increasingly present for public software applications as well as critical systems software applications as well as critical systems This title and Distributed Systems Design and Algorithms from the same editors introduce the underlying concepts the associated design techniques and the related security issues The objective of this book is to describe the state of the art of the formal methods for the analysis of distributed systems Numerous issues remain open and are the topics of major research projects One current research trend consists of profoundly mixing the design modeling verification and implementation stages This prototyping based approach is centered around the concept of model refinement This book is more specifically intended for readers that wish to gain an overview of the application of formal methods in the design of distributed systems Master s and PhD students as well as engineers in industry will find a global understanding of the techniques as well as references to the most up to date works in this area

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