

# Specification



- Formal methods for specification of the concurrent systems
  - CSP (Hoare 1985)
  - CCS (Milner 1980)
  - Statecharts (Harel 1987)
  - Temporal Logic (Pnueli 1981)
  - I/O Automata (Lynch and Tuttle 1987)
- **States** range over simple domains, like integers
- **Behavior** is defined in terms of sequences, trees, partial orders of events

# Concurrent Systems Formal Development In Csp

**Bertrand Meyer, James Woodcock**



## **Concurrent Systems Formal Development In Csp:**

Concurrent Systems Michael Gerard Hinchey, Stephen A. Jarvis, 1995 Techniques based on formal methods such as the language of CSP Communicating Sequential Processes have proven to be the most successful means of conquering complexity in the specification of concurrent embedded real time and distributed systems *Concurrent Systems* McGraw-Hill Ryerson, Limited, **Understanding Concurrent Systems** A.W. Roscoe, 2010-10-10 CSP notation has been used extensively for teaching and applying concurrency theory ever since the publication of the text Communicating Sequential Processes by C A R Hoare in 1985 Both a programming language and a specification language the theory of CSP helps users to understand concurrent systems and to decide whether a program meets its specification As a member of the family of process algebras the concepts of communication and interaction are presented in an algebraic style An invaluable reference on the state of the art in CSP Understanding Concurrent Systems also serves as a comprehensive introduction to the field in addition to providing material for a number of more advanced courses A first point of reference for anyone wanting to use CSP or learn about its theory the book also introduces other views of concurrency using CSP to model and explain these The text is fully integrated with CSP based tools such as FDR and describes how to create new tools based on FDR Most of the book relies on no theoretical background other than a basic knowledge of sets and sequences Sophisticated mathematical arguments are avoided whenever possible Topics and features presents a comprehensive introduction to CSP discusses the latest advances in CSP covering topics of operational semantics denotational models finite observation models and infinite behaviour models and algebraic semantics explores the practical application of CSP including timed modelling discrete modelling parameterised verifications and the state explosion problem and advanced topics in the use of FDR examines the ability of CSP to describe and enable reasoning about parallel systems modelled in other paradigms covers a broad variety of concurrent systems including combinatorial timed priority based mobile shared variable statecharts buffered and asynchronous systems contains exercises and case studies to support the text supplies further tools and information at the associated website <http://www.comlab.ox.ac.uk/ucs> From undergraduate students of computer science in need of an introduction to the area to researchers and practitioners desiring a more in depth understanding of theory and practice of concurrent systems this broad ranging text reference is essential reading for anyone interested in Hoare's CSP , *B 2007: Formal Specification and Development in B* Jacques Julliand, Olga Kouchnarenko, 2006-12-14 This book constitutes the refereed proceedings of the 7th International Conference of B Users B 2007 held in Besançon France January 2007 Coverage in this volume includes industrial applications and case studies using B integration of model based specification methods in the software development lifecycle derivation of hardware software architecture from model based specifications and validating requirements through formal models Formal Methods: Foundations and Applications Márcio Cornélio, Bill Roscoe, 2016-01-23 This book constitutes revised selected papers from the 18th Brazilian Symposium on Formal Methods

SBMF 2015 which took place in Belo Horizonte Brazil in September 2015 The 11 papers presented in this volume were carefully reviewed and selected from 25 submissions They were organized in topical sections named model checking languages and semantics refinement and verification testing and evaluation **Formal Methods: Foundations and Applications** Lucas Lima,Vince Molnár,2022-11-30 This book constitutes the refereed proceedings of the 25th Brazilian Symposium on Formal Methods SBMF 2022 which was held virtually in December 2022 The 8 regular papers presented in this book were carefully reviewed and selected from 15 submissions The symposium focuses on the development dissemination and use of formal methods for the construction of high quality computational systems aiming to promote opportunities for researchers and practitioners with an interest in formal methods to discuss the recent advances in this area

**Agent Technology from a Formal Perspective** Michael Hinchey,Christopher Rouff,James Rash,Walt Truszkowski,Diana F. Gordon-Spears,2006-01-27 The field of agent indicating open problems to be addressed by future researchers students practitioners *Formal Methods and Software Engineering* Michael Butler,Michael G. Hinchey,Maria M. Larrondo-Petrie,2007-10-27 This book constitutes the refereed proceedings of the 9th International Conference on Formal Engineering Methods ICFEM 2007 held in Boca Raton Florida USA November 14 15 2007 The 19 revised full papers together with two invited talks presented were carefully reviewed and selected from 38 submissions The papers address all current issues in formal methods and their applications in software engineering The papers are organized in topical sections

*Communicating Process Architectures 2007* Alistair A. McEwan,2007 Deals with Computer Science and models of Concurrency This title emphasizes on hardware software co design and the understanding of concurrency that results from these systems It includes a range of papers on this topic from the formal modeling of buses in co design systems through to software simulation and development environments Software Engineering and Formal Methods Robert M. Hierons,Mercedes G. Merayo,Mario Bravetti,2013-09-18 This book constitutes the refereed proceedings of the 11th International Conference on Software Engineering and Formal Methods SEFM 2013 held in Madrid Spain in September 2013 The 21 full papers included in this volume were carefully reviewed and selected from 58 submissions They are organized in topical section on real time systems verification types and inference static analysis testing and runtime verification and synthesis and transformation **Formal Development of a Network-Centric RTOS** Eric Verhulst,Raymond T. Boute,José Miguel Sampaio Faria,Bernhard H.C. Spath,Vitaliy Mezhyuev,2011-08-23 Many systems devices and appliances used routinely in everyday life ranging from cell phones to cars contain significant amounts of software that is not directly visible to the user and is therefore called embedded For coordinating the various software components and allowing them to communicate with each other support software is needed called an operating system OS Because embedded software must function in real time RT a RTOS is needed This book describes a formally developed network centric Real Time Operating System OpenComRTOS One of the first in its kind OpenComRTOS was originally developed to verify the usefulness of formal

methods in the context of embedded software engineering Using the formal methods described in this book produces results that are more reliable while delivering higher performance The result is a unique real time concurrent programming system that supports heterogeneous systems with just 5 Kbytes node It is compatible with safety related engineering standards such as IEC61508 **Embedded and Ubiquitous Computing - EUC 2005 Workshops** Tomoya Enokido, Lu Yan, Bin

Xiao, Daeyoung Kim, Yuanshun Dai, Laurence T. Yang, 2005-11-25 Requirements Targeting Software and Systems Engineering Manfred Broy, Bernhard Rumpe, 2005-06-30 This book constitutes the strictly refereed post workshop proceedings of the International Workshop on Requirements Targeting Software and Systems Engineering RTSE 97 held in Bernried Germany in October 1997 The 15 revised full papers presented in the book were carefully revised and reviewed for inclusion in the book Among the authors are internationally leading researchers The book is divided in sections on foundations of software engineering methodology evaluation and case studies and tool support and prototyping

**High-Integrity System Specification and Design** Jonathan P. Bowen, Michael G. Hinchey, 2012-12-06 Errata detected in Taylor s Logarithms London 4to 1792 sic 14 18 3 6 Kk Co sine of 3398 3298 Nautical Almanac 1832 In the list of ERRATA detected in Taylor s Logarithms for cos 4 18 3 read cos 14 18 2 Nautical Almanac 1833 ERRATUM of the ERRATUM of the ERRATA of TAYLOR S Logarithms For cos 4 18 3 read cos 14 18 3 Nautical Almanac 1836 In the 1820s an Englishman named Charles Babbage designed and partly built a calculating machine originally intended for use in deriving and printing logarithmic and other tables used in the shipping industry At that time such tables were often inaccurate copied carelessly and had been instrumental in causing a number of maritime disasters Babbage s machine called a Difference Engine because it performed its calculations using the principle of partial differences was intended to substantially reduce the number of errors made by humans calculating the tables Babbage had also designed but never built a forerunner of the modern printer which would also reduce the number of errors admitted during the transcription of the results Nowadays a system implemented to perform the function of Babbage s engine would be classed as safety critical That is the failure of the system to produce correct results could result in the loss of human life mass destruction of property in the form of ships and cargo as well as financial losses and loss of competitive advantage for the shipping firm **Verified Software: Theories, Tools,**

**Experiments** Bertrand Meyer, James Woodcock, 2008-07-07 A Step Towards Verified Software Worries about the reliability of software are as old as software itself techniques for allaying these worries predate even James King s 1969 thesis on A program verifier What gives the whole topic a new urgency is the conjunction of three phenomena the blitz like spread of software rich systems to control ever more facets of our world and our lives our growing impatience with deficiencies and the development proceeding more slowly alas than the other two trends of techniques to ensure and verify software quality In 2002 Tony Hoare one of the most distinguished contributors to these advances over the past four decades came to the conclusion that piecemeal efforts are no longer sufficient and proposed a Grand Challenge intended to achieve over 15 years

the production of a verifying compiler a tool that while processing programs would also guarantee their adherence to specified properties of correctness robustness safety security and other desirable properties As Hoare sees it this endeavor is not a mere research project as might normally be carried out by one team or a small consortium of teams but a momentous endeavor comparable in its scope to the successful mission to send a man to the moon or to the sequencing of the human genome

**Biologically Inspired Cooperative Computing** Yi Pan,2006-08 This volume presents proceedings from the 19th IFIP World Computer Congress in Santiago Chile The proceedings of the World Computer Congress are a product of the gathering of 2 000 delegates from more than 70 countries to discuss a myriad of topics in the ICT domain Of particular note this marks the first time that a World Computer Congress has been held in a Latin American country Topics in this series include The 4th International Conference on Theoretical Computer Science Education for the 21st Century Impact of ICT and Digital Resources Mobile and Wireless Communication Networks Ad Hoc Networking Network Control and Engineering for QoS Security and Mobility The Past and Future of Information Systems 1976 2006 and Beyond History of Computing and Education Biologically Inspired Cooperative Computing Artificial Intelligence in Theory and Practice Applications in Artificial Intelligence Advanced Software Engineering Expanding the Frontiers of Software For a complete list of the more than 300 titles in the IFIP Series visit [springer.com](http://springer.com) For more information about IFIP please visit [ifip.org](http://ifip.org) Conquering Complexity

Mike Hinchey,Lorcan Coyle,2012-01-02 Software has long been perceived as complex at least within Software Engineering circles We have been living in a recognised state of crisis since the first NATO Software Engineering conference in 1968 Time and again we have been proven unable to engineer reliable software as easily cheaply as we imagined Cost overruns and expensive failures are the norm The problem is fundamentally one of complexity software is fundamentally complex because it must be precise Problems that appear to be specified quite easily in plain language become far more complex when written in a more formal notation such as computer code Comparisons with other engineering disciplines are deceptive One cannot easily increase the factor of safety of software in the same way that one could in building a steel structure for example Software is typically built assuming perfection often without adequate safety nets in case the unthinkable happens In such circumstances it should not be surprising to find out that seemingly minor errors have the potential to cause entire software systems to collapse The goal of this book is to uncover techniques that will aid in overcoming complexity and enable us to produce reliable dependable computer systems that will operate as intended and yet are produced on time in budget and are evolvable both over time and at run time We hope that the contributions in this book will aid in understanding the nature of software complexity and provide guidance for the control or avoidance of complexity in the engineering of complex software systems *Communicating Process Architectures 2002* World Occam and Transputer User Group. Technical Meeting,2002 The WoTUG series of conferences are a major forum for the presentation of state of the art ideas on concurrency and communication This book continues this trend with these proceedings containing a number of papers that

discuss a wide range of issues fundamental to the future of concurrency      Coordination of Internet Agents Andrea Omicini, Franco Zambonelli, Matthias Klusch, Robert Tolksdorf, 2013-11-27 As today's most complex computing environment the Internet confronts IT researchers, system designers and application developers with completely new challenges and as a fascinating new computing paradigm, agent technology has recently attracted broad interest and strong hopes for shaping the future information society. Relating both the Internet and agents opens up a whole new range of advanced applications in vibrant subfields of information technology such as middleware, mobile commerce, e-learning, collaborative working and intelligent information services. Many modern advanced systems are likely to exploit Internet agents and exploiting Internet agents mostly means dealing with coordination models and technologies of various sorts. This monograph-like anthology is the first systematic guide to models and enabling technologies for the coordination of intelligent agents on the Internet and respective applications.

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