

Ivan Radojevic · Zoran Salcic

# Embedded Systems Design Based on Formal Models of Computation

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**L Cohen**



## **Embedded Systems Design Based On Formal Models Of Computation:**

**Embedded Systems Design Based on Formal Models of Computation** Ivan Radojevic, Zoran Salcic, 2011-06-15 Models of Computation for Heterogeneous Embedded Systems presents a model of computation for heterogeneous embedded systems called DFCharts. It targets heterogeneous systems by combining finite state machines (FSM) with synchronous dataflow graphs (SDFG). FSMs are connected in the same way as in Argos, a Statecharts variant with purely synchronous semantics using three operators: synchronous parallel, refinement, and hiding. The fourth operator called asynchronous parallel is introduced in DFCharts to connect FSMs with SDFGs. In the formal semantics of DFCharts, the operation of an SDFG is represented as an FSM. Using this representation, SDFGs are merged with FSMs so that the behaviour of a complete DFCharts specification can be expressed as a single flat FSM. This allows system properties to be verified globally. The practical application of DFCharts has been demonstrated by linking it to widely used system level languages: Java, Esterel, and SystemC.

**Software Engineering and Formal Methods** Alessandro Cimatti, Marjan Sirjani, 2017-08-24 This book constitutes the refereed proceedings of the 15th International Conference on Software Engineering and Formal Methods (SEFM 2017) held in Trento, Italy, in September 2017. The 17 full papers and 6 short papers presented were carefully reviewed and selected from 102 submissions. The papers deal with a large range of topics in the following research areas: new frontiers in software architecture, software verification and testing, software development methods, application and technology transfer, security and safety, and design principles.

*Formal Methods and Models for System Design* Rajesh Gupta, Paul Le Guernic, Sandeep Kumar Shukla, Jean-Pierre Talpin, 2004-10-01 Perhaps nothing characterizes the inherent heterogeneity in embedded systems than the ability to choose between hardware and software implementations of a given system function. Indeed, most embedded systems at their core represent a careful division and design of hardware and software parts of the system. To do this task effectively, models and methods are necessary: functionality to capture application behavior, needs and system implementation constraints. Formal modeling can be valuable in addressing these tasks. As with most engineering domains, co-design practice defines the state of the art; it seeks to add new capabilities in system conceptualization, model transformation, optimization, and implementation. These advances, particularly those related to synthesis and verification tasks, directly depend upon formal understanding of system behavior and performance measures. Current practice in system modeling relies upon exploiting high-level programming frameworks such as SystemC, Esterel, to capture design at increasingly higher levels of abstraction and attempts to reduce the system implementation task. While raising the abstraction levels for design and verification tasks to be really useful, these approaches must also provide for reuse/adaptation of the existing intellectual property (IP) blocks.

**16th International Conference on Information Technology-New Generations (ITNG 2019)** Shahram Latifi, 2019-05-22 This 16th International Conference on Information Technology New Generations (ITNG) continues an annual event focusing on state-of-the-art technologies.

pertaining to digital information and communications The applications of advanced information technology to such domains as astronomy biology education geosciences security and health care are among topics of relevance to ITNG Visionary ideas theoretical and experimental results as well as prototypes designs and tools that help the information readily flow to the user are of special interest Machine Learning Robotics High Performance Computing and Innovative Methods of Computing are examples of related topics The conference features keynote speakers the best student award poster award service award a technical open panel and workshops exhibits from industry government and academia

### **Models in Software**

**Engineering** Holger Giese, 2008-07 This book constitutes the thoroughly refereed post workshop proceedings of 10 international workshops and 2 symposia held as satellite events of the 10th International Conference on Model Driven Engineering Languages and Systems MoDELS 2007 in Nashville TN USA in September October 2007 see LNCS 4735 The 29 revised full papers were carefully selected for inclusion in the book and are presented along with a doctoral and an educators symposium section The papers are organized in topical sections representing the various workshops aspect oriented modeling AOM 2007 language engineering ATEM2007 model driven development of advanced user interfaces MDDAUI 2007 model size metrics MSM 2007 model based design of trustworthy health information systems MOTHIS 2007 model driven engineering verification and validation MoDeVVA 2007 modelling systems with OCL Ocl4All 2007 Models run time multi paradigm modeling concepts and tools MPM 2007 quality in modeling doctoral symposium and educators symposium

**Component-Based Software Engineering** Ivica Crnkovic, 2004-05-12 This book constitutes the refereed proceedings of the 7th International Symposium on Component Based Software Engineering CBSE 2004 held in Edinburgh UK in May 2004 as an adjunct event to ICSE 2004 The 12 revised long papers and 13 revised short papers presented together with the abstracts of 2 invited talks were carefully reviewed and selected from 82 submissions The papers are organized in topical sections on generation and adoption of component based systems tools and building frameworks components for real time embedded systems extra functional properties of components and component based systems and measurement and prediction models for component assemblies

**Electronic Design Automation for IC System Design, Verification, and Testing** Luciano Lavagno, Igor L. Markov, Grant Martin, Louis K. Scheffer, 2017-12-19 The first of two volumes in the Electronic Design Automation for Integrated Circuits Handbook Second Edition Electronic Design Automation for IC System Design Verification and Testing thoroughly examines system level design microarchitectural design logic verification and testing Chapters contributed by leading experts authoritatively discuss processor modeling and design tools using performance metrics to select microprocessor cores for integrated circuit IC designs design and verification languages digital simulation hardware acceleration and emulation and much more New to This Edition Major updates appearing in the initial phases of the design flow where the level of abstraction keeps rising to support more functionality with lower non recurring engineering NRE costs Significant revisions reflected in the final phases of the design flow where the complexity

due to smaller and smaller geometries is compounded by the slow progress of shorter wavelength lithography New coverage of cutting edge applications and approaches realized in the decade since publication of the previous edition these are illustrated by new chapters on high level synthesis system on chip SoC block based design and back annotating system level models Offering improved depth and modernity Electronic Design Automation for IC System Design Verification and Testing provides a valuable state of the art reference for electronic design automation EDA students researchers and professionals

**Discrete-Event Modeling and Simulation** Gabriel A. Wainer, Pieter J. Mosterman, 2018-09-03 Collecting the work of the foremost scientists in the field Discrete Event Modeling and Simulation Theory and Applications presents the state of the art in modeling discrete event systems using the discrete event system specification DEVS approach It introduces the latest advances recent extensions of formal techniques and real world examples of various applications The book covers many topics that pertain to several layers of the modeling and simulation architecture It discusses DEVS model development support and the interaction of DEVS with other methodologies It describes different forms of simulation supported by DEVS the use of real time DEVS simulation the relationship between DEVS and graph transformation the influence of DEVS variants on simulation performance and interoperability and composability with emphasis on DEVS standardization The text also examines extensions to DEVS new formalisms and abstractions of DEVS models as well as the theory and analysis behind real world system identification and control To support the generation and search of optimal models of a system a framework is developed based on the system entity structure and its transformation to DEVS simulation models In addition the book explores numerous interesting examples that illustrate the use of DEVS to build successful applications including optical network on chip construction building design process control workflow systems and environmental models A one stop resource on advances in DEVS theory applications and methodology this volume offers a sampling of the best research in the area a broad picture of the DEVS landscape and trend setting applications enabled by the DEVS approach It provides the basis for future research discoveries and encourages the development of new applications

### **Embedded Systems**

**Handbook 2-Volume Set** Richard Zurawski, 2018-10-08 During the past few years there has been an dramatic upsurge in research and development implementations of new technologies and deployments of actual solutions and technologies in the diverse application areas of embedded systems These areas include automotive electronics industrial automated systems and building automation and control Comprising 48 chapters and the contributions of 74 leading experts from industry and academia the Embedded Systems Handbook Second Edition presents a comprehensive view of embedded systems their design verification networking and applications The contributors directly involved in the creation and evolution of the ideas and technologies presented offer tutorials research surveys and technology overviews exploring new developments deployments and trends To accommodate the tremendous growth in the field the handbook is now divided into two volumes New in This Edition Processors for embedded systems Processor centric architecture description languages Networked

embedded systems in the automotive and industrial automation fields Wireless embedded systems Embedded Systems Design and Verification Volume I of the handbook is divided into three sections It begins with a brief introduction to embedded systems design and verification The book then provides a comprehensive overview of embedded processors and various aspects of system on chip and FPGA as well as solutions to design challenges The final section explores power aware embedded computing design issues specific to secure embedded systems and web services for embedded devices Networked Embedded Systems Volume II focuses on selected application areas of networked embedded systems It covers automotive field industrial automation building automation and wireless sensor networks This volume highlights implementations in fast evolving areas which have not received proper coverage in other publications Reflecting the unique functional requirements of different application areas the contributors discuss inter node communication aspects in the context of specific applications of networked embedded systems

**Electronic Engineering and Computing Technology** Len Gelman, 2010-04-21 Electronic Engineering and Computing Technology contains sixty one revised and extended research articles written by prominent researchers participating in the conference Topics covered include Control Engineering Network Management Wireless Networks Biotechnology Signal Processing Computational Intelligence Computational Statistics Internet Computing High Performance Computing and industrial applications Electronic Engineering and Computing Technology will offer the state of art of tremendous advances in electronic engineering and computing technology and also serve as an excellent reference work for researchers and graduate students working with on electronic engineering and computing technology

**Model Driven Engineering Languages and Systems** Andy Schürr, Bran Selic, 2009-09-15 The pioneering organizers of the rst UML workshop in Mulhouse France in the summer of 1998 could hardly have anticipated that in little over a decade their initiative would blossom into today's highly successful MODELS conference series the premier annual gathering of researchers and practitioners focusing on a very important new technical discipline model based software and system engineering This expansion is of course a direct consequence of the growing significance and success of model based methods in practice The conferences have contributed greatly to the heightened interest in the field attracting much young talent and leading to the gradual emergence of its corresponding scientific and engineering foundations The proceedings from the MODELS conferences are one of the primary references for anyone interested in a more substantive study of the domain The 12th conference took place in Denver in the USA October 4-9 2009 along with numerous satellite workshops and tutorials as well as several other related scientific gatherings The conference was exceptionally fortunate to have three eminent invited keynote speakers from industry Stephen Mellor Larry Constantine and Grady Booch

**Formal Modeling: Actors; Open Systems, Biological Systems** Gul Agha, Olivier Danvy, José Meseguer, 2011-10-13 This Festschrift volume published in honor of Carolyn Talcott on the occasion of her 70th birthday contains a collection of papers presented at a symposium held in Menlo Park California USA in November 2011 Carolyn Talcott is a leading researcher and mentor of

international renown among computer scientists She has made key contributions to a number of areas of computer science including semantics and verification of programming languages foundations of actor based systems middleware meta architectures and systems Maude and rewriting logic and computational biology The 21 papers presented are organized in topical sections named Essays on Carolyn Talcott actors and programming languages cyberphysical systems middleware and meta architectures formal methods and reasoning tools and computational biology

**Tools and Technologies for the Development of Cyber-Physical Systems** Balandin, Sergey, Balandina, Ekaterina, 2019-12-27 With the continual development of professional industries in today's modernized world certain technologies have become increasingly applicable Cyber physical systems specifically are a mechanism that has seen rapid implementation across numerous fields This is a technology that is constantly evolving so specialists need a handbook of research that keeps pace with the advancements and methodologies of these devices Tools and Technologies for the Development of Cyber Physical Systems is an essential reference source that discusses recent advancements of cyber physical systems and its application within the health information and computer science industries Featuring research on topics such as autonomous agents power supply methods and software assessment this book is ideally designed for data scientists technology developers medical practitioners computer engineers researchers academicians and students seeking coverage on the development and various applications of cyber physical systems

Scientific Engineering of Distributed Java Applications. Nicoals Guelfi, Egidio Astesiano, Gianna Reggio, 2004-03-09 FIDJI 2003 was an international forum for researchers and practitioners interested in the advances in and applications of software engineering for distributed application development Concerning the technologies the workshop focused on Java related technologies It was an opportunity to present and observe the latest research results and ideas in these areas All papers submitted to this workshop were reviewed by at least two members of the International Program Committee Acceptance was based primarily on originality and contribution We selected for these post workshop proceedings 14 papers amongst 29 submitted two tutorials and one keynote talk FIDJI 2003 aimed at promoting a scientific approach to software engineering The scope of the workshop included the following topics design of distributed Java applications Java related technologies software and system architecture engineering and development methodologies development methodologies for UML development methodologies for reliable distributed systems component based development methodologies management of evolutions iterations in the analysis design implementation and test phases dependability support during system life cycles managing inconsistencies during application development atomicity and exception handling in system development software architectures frameworks and design patterns for developing distributed systems integration of formal techniques in the development process formal analysis and grounding of modeling notation and techniques e.g. UML metamodeling supporting the security requirements of distributed applications in the development process refactoring methods industrial and academic case studies development and analysis tools The organization of such a workshop represents an important amount of work

**Languages, Design Methods, and Tools for Electronic System Design** Frank Oppenheimer, Julio Luis Medina Pasaje, 2015-12-11 This book brings together a selection of the best papers from the seventeenth edition of the Forum on specification and Design Languages Conference FDL which took place on October 14-16 2014 in Munich Germany FDL is a well established international forum devoted to dissemination of research results practical experiences and new ideas in the application of specification design and verification languages to the design modeling and verification of integrated circuits complex hardware software embedded systems and mixed technology systems Languages, Design Methods, and Tools for Electronic System Design Marie-Minerve Louërat, Torsten Maehne, 2014-08-21 This book brings together a selection of the best papers from the sixteenth edition of the Forum on specification and Design Languages Conference FDL which was held in September 2013 in Paris France FDL is a well established international forum devoted to dissemination of research results practical experiences and new ideas in the application of specification design and verification languages to the design modeling and verification of integrated circuits complex hardware software embedded systems and mixed technology systems

**Leveraging Applications of Formal Methods, Verification and Validation: Discussion, Dissemination, Applications** Tiziana Margaria, Bernhard Steffen, 2016-10-04 The two volume set LNCS 9952 and LNCS 9953 constitutes the refereed proceedings of the 7th International Symposium on Leveraging Applications of Formal Methods Verification and Validation ISoLA 2016 held in Imperial Corfu Greece in October 2016 The papers presented in this volume were carefully reviewed and selected for inclusion in the proceedings Featuring a track introduction to each section the papers are organized in topical sections named statistical model checking evaluation and reproducibility of program analysis and verification ModSyn PP modular synthesis of programs and processes semantic heterogeneity in the formal development of complex systems static and runtime verification competitors or friends rigorous engineering of collective adaptive systems correctness by construction and post hoc verification friends or foes privacy and security issues in information systems towards a unified view of modeling and programming formal methods and safety certification challenges in the railways domain RVE runtime verification and enforcement the industrial application perspective variability modeling for scalable software evolution detecting and understanding software doping learning systems machine learning in software products and learning based analysis of software systems testing the internet of things doctoral symposium industrial track RERS challenge and STRESS

**FM 2006: Formal Methods** Jayadev Misra, Tobias Nipkow, Emil Sekerinski, 2006-08-10 This book presents the refereed proceedings of the 14th International Symposium on Formal Methods FM 2006 held in Hamilton Canada August 2006 The book presents 36 revised full papers together with 2 invited contributions and extended abstracts of 7 invited industrial presentations organized in topical sections on interactive verification formal modelling of systems real time industrial experience specification and refinement programming languages algebra formal modelling of systems and more

**Leveraging Applications of Formal Methods, Verification and Validation: Tools and Trends** Tiziana



Margaria, Bernhard Steffen, 2021-08-04 The four volume set LNCS 12476 12479 constitutes the refereed proceedings of the 9th International Symposium on Leveraging Applications of Formal Methods ISoLA 2020 which was planned to take place during October 20 30 2020 on Rhodes Greece The event itself was postponed to 2021 due to the COVID 19 pandemic The papers presented were carefully reviewed and selected for inclusion in the proceedings Each volume focusses on an individual topic with topical section headings within the volume Part I Verification Principles Modularity and De Composition in Verification X by Construction Correctness meets Probability 30 Years of Statistical Model Checking Verification and Validation of Concurrent and Distributed Systems Part II Engineering Principles Automating Software Re Engineering Rigorous Engineering of Collective Adaptive Systems Part III Applications Reliable Smart Contracts State of the art Applications Challenges and Future Directions Automated Verification of Embedded Control Software Formal methods for DIStributed COmputing in future RAILway systems Part IV Tools and Trends From Verification to Explanation Engineering of Digital Twins for Cyber Physical Systems Software Verification Tools      **Readings in Hardware/Software Co-Design**

Giovanni De Micheli, Rolf Ernst, Wayne Wolf, 2002 This title serves as an introduction and reference for the field with the papers that have shaped the hardware software co design since its inception in the early 90s

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