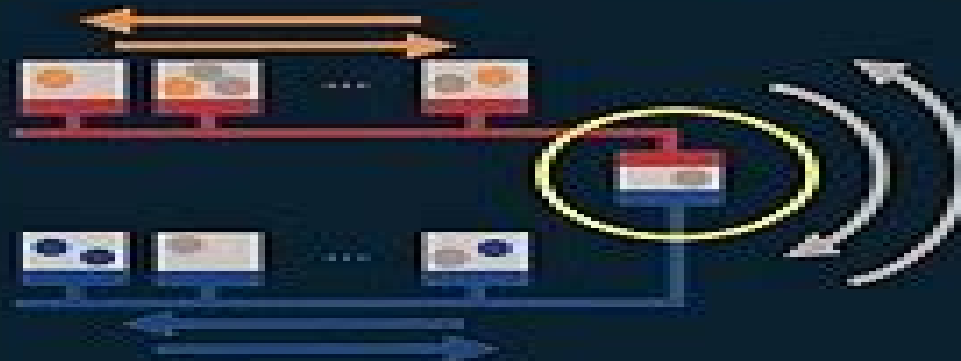


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Embedded Systems Design

The ARTIST Roadmap
for Research and Development



 Springer

Embedded Systems Design The Artist Roadmap For Research And Development

Rogério de Lemos, Cristina Gacek



Embedded Systems Design The Artist Roadmap For Research And Development:

Embedded Systems Design Bruno Bouyssounouse, Joseph Sifakis, 2005-02-07 Embedded systems now include a very large proportion of the advanced products designed in the world spanning transport avionics space automotive trains electrical and electronic appliances cameras toys televisions home appliances audio systems and cellular phones process control energy production and distribution factory automation and optimization telecommunications satellites mobile phones and telecom networks and security e commerce smart cards etc The extensive and increasing use of embedded systems and their integration in everyday products marks a significant evolution in information science and technology We expect that within a short timeframe embedded systems will be a part of nearly all equipment designed or manufactured in Europe the USA and Asia There is now a strategic shift in emphasis for embedded systems designers from simply achieving feasibility to achieving optimality Optimal design of embedded systems means targeting a given market segment at the lowest cost and delivery time possible Optimality implies seamless integration with the physical and electronic environment while respecting real world constraints such as hard deadlines reliability availability robustness power consumption and cost In our view optimality can only be achieved through the emergence of embedded systems as a discipline in its own right *Automotive Embedded Systems Handbook* Nicolas Navet, Francoise Simonot-Lion, 2017-12-19 A Clear Outline of Current Methods for Designing and Implementing Automotive Systems Highlighting requirements technologies and business models the Automotive Embedded Systems Handbook provides a comprehensive overview of existing and future automotive electronic systems It presents state of the art methodological and technical solutions in the areas of in vehicle architectures multipartner development processes software engineering methods embedded communications and safety and dependability assessment Divided into four parts the book begins with an introduction to the design constraints of automotive embedded systems It also examines AUTOSAR as the emerging de facto standard and looks at how key technologies such as sensors and wireless networks will facilitate the conception of partially and fully autonomous vehicles The next section focuses on networks and protocols including CAN LIN FlexRay and TTCAN The third part explores the design processes of electronic embedded systems along with new design methodologies such as the virtual platform The final section presents validation and verification techniques relating to safety issues Providing domain specific solutions to various technical challenges this handbook serves as a reliable complete and well documented source of information on automotive embedded systems

Distributed, Embedded and Real-time Java Systems M. Teresa Higuera-Toledano, Andy J. Wellings, 2012-02-07 Research on real time Java technology has been prolific over the past decade leading to a large number of corresponding hardware and software solutions and frameworks for distributed and embedded real time Java systems This book is aimed primarily at researchers in real time embedded systems particularly those who wish to understand the current state of the art in using Java in this domain Much of the work in real time distributed embedded and real time Java has focused on the

Real time Specification for Java RTSJ as the underlying base technology and consequently many of the Chapters in this book address issues with or solve problems using this framework Describes innovative techniques in scheduling memory management quality of service and communication systems supporting real time Java applications Includes coverage of multiprocessor embedded systems and parallel programming Discusses state of the art resource management for embedded systems including Java s real time garbage collection and parallel collectors Considers hardware support for the execution of Java programs including how programs can interact with functional accelerators Includes coverage of Safety Critical Java for development of safety critical embedded systems

Embedded System Design Peter Marwedel,2021-01-25 A unique feature of this open access textbook is to provide a comprehensive introduction to the fundamental knowledge in embedded systems with applications in cyber physical systems and the Internet of things It starts with an introduction to the field and a survey of specification models and languages for embedded and cyber physical systems It provides a brief overview of hardware devices used for such systems and presents the essentials of system software for embedded systems including real time operating systems The author also discusses evaluation and validation techniques for embedded systems and provides an overview of techniques for mapping applications to execution platforms including multi core platforms Embedded systems have to operate under tight constraints and hence the book also contains a selected set of optimization techniques including software optimization techniques The book closes with a brief survey on testing This fourth edition has been updated and revised to reflect new trends and technologies such as the importance of cyber physical systems CPS and the Internet of things IoT the evolution of single core processors to multi core processors and the increased importance of energy efficiency and thermal issues

Mathematical Frameworks For Component Software: Models For Analysis And Synthesis Zhiming Liu,Jifeng He,2006-11-29 The range of components technology is both wide and diverse but some common understanding is emerging through the ideas of model based development These include the notions of interfaces contracts services connectors and architectures Key issues in the application of the technology are becoming clearer including the consistent integration of different views of a component component composition component coordination and transformation for platforms However we still know little about theories that support analysis and synthesis of component based systems The distinct feature of this volume is its focus on mathematical models that identify the core concepts as first class modeling elements and its providing of techniques for integrating and relating them The volume contains eleven chapters by well established researchers writing from different perspectives Each chapter gives explicit definitions of components in terms of a set of key aspects and addresses some of the problems of integration and analysis of various views component specification component composition component coordination refinement and substitution and techniques for solving problems The concepts and techniques are motivated and explained with the help of examples and case studies

Ad Hoc and Sensor Networks Carlos de Morais Cordeiro,Dharma Prakash Agrawal,2011 This book provides a comprehensive yet easy coverage

of ad hoc and sensor networks and fills the gap of existing literature in this growing field. It emphasizes that there is a major interdependence among various layers of the network protocol stack. Contrary to wired or even one hop cellular networks, the lack of a fixed infrastructure, the inherent mobility, the wireless channel, and the underlying routing mechanism by ad hoc and sensor networks introduce a number of technological challenges that are difficult to address within the boundaries of a single protocol layer. All existing textbooks on the subject often focus on a specific aspect of the technology and fail to provide critical insights on cross layer interdependencies. To fully understand these intriguing networks, one needs to grasp specific solutions individually and also the many interdependencies and cross layer interactions.

Automated Driving Daniel Watzenig, Martin Horn, 2016-09-23. The main topics of this book include advanced control, cognitive data processing, high performance computing, functional safety, and comprehensive validation. These topics are seen as technological bricks to drive forward automated driving. The current state of the art of automated vehicle research, development, and innovation is given. The book also addresses industry driven roadmaps for major new technology advances as well as collaborative European initiatives supporting the evolution of automated driving. Various examples highlight the state of development of automated driving as well as the way forward. The book will be of interest to academics and researchers within engineering, graduate students, automotive engineers at OEMs and suppliers, ICT and software engineers, managers, and other decision makers.

Nanotechnology for Telecommunications Sohail Anwar, M. Yasin Akhtar Raja, Salahuddin Qazi, Mohammad Ilyas, 2017-12-19. With its unique promise to revolutionize science, engineering, technology, and other fields, nanotechnology continues to profoundly impact associated materials, components, and systems, particularly those used in telecommunications. These developments are leading to easier convergence of related technologies, massive storage, data compact storage devices, and higher performance computing. Nanotechnology for Telecommunications presents vital technical, scientific information to help readers grasp issues and challenges associated with nanoscale telecommunication system development and commercialization and then avail themselves of the many opportunities to be gleaned. This book provides technical information and research ideas regarding the use of nanotechnology in telecommunications and information processing, reflecting the continuing trend toward the use of optoelectronics. Nanotech will eventually lead to a technology cluster that offers a complete range of functionalities for systems used in domains including information, energy, construction, environmental, and biomedical. Describing current and future developments that hold promise for significant innovations in telecommunications, this book is organized to provide a progressive understanding of topics including Background information on nanoscience and nanotechnology, Specific applications of nanotechnology in telecommunications, Nanostructured optoelectronic materials, MEMS, NEMS, and their applications in communication systems, Quantum dot Cellular Automata, QCA, and its applications in telecommunication systems, How nonohmic nonlinear behavior affects both digital and analog signal processing, Concepts regarding quantum switching and its applications in quantum networks. The

scale of the physical systems that use nanoscale electronic devices is still large and that presents serious challenges to the establishment of interconnections between nanoscale devices and the outside world Also addressing consequent social implications of nanotech this book reviews a broad range of the nano concepts and their influence on every aspect of telecommunications It describes the different levels of interconnections in systems and details the standardized assembly process for a broad specrum of micro nano bio fiber optic and optoelectronic components and functions This book is a powerful tool for understanding how to harness the power of nanotech through integration of materials processes devices and applications

Understanding Analog Side Channels Using Cryptography Algorithms Alenka Zajić, Milos Prvulovic, 2023-09-30 This book offers the latest research results on analog side channels and their usage in cybersecurity It demystifies analog side channels and demonstrates new use cases for them The first part of this book discusses how analog side channels are generated the physics behind it the modeling and measurements of analog side channels and their analogies to wireless communication systems The second part of this book introduces new applications that benefit from leveraging side channels In addition to breaking cryptography algorithms it demonstrates how analog side channels can be used for malware detection program profiling hardware profiling hardware software attestation hardware identification and hardware Trojan detection Side channel is one of the methods for obtaining information about program execution Traditionally they are used in computer science to extract information about a key in cryptographic algorithms What makes them different from other ways of extracting information about program execution is that side channels rely on how a system implements program execution rather than what the program s algorithm specifies Analog side channels are particularly powerful because they are not easy to suppress or detect that someone is collecting information from the system Although they are very powerful tools they are poorly understood This book targets advanced level students in computer science and electrical engineering as a textbook Researchers and professionals working with analog side channels how to model them measure them improve signal to noise ratio and invent new signal processing techniques can also use this book Computer scientists and engineers who want to learn new applications of side channels to improve system security new techniques for breaking cryptography keys new techniques for attestation and new techniques for hardware Trojan detection will also want to purchase this book

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

Modeling collaborations in self-adaptive systems of systems Wätzoldt, Sebastian, Giese, Holger, 2015-04-30 An increasing demand on functionality and flexibility leads to an integration of beforehand isolated system solutions building a so called

System of Systems SoS Furthermore the overall SoS should be adaptive to react on changing requirements and environmental conditions Due SoS are composed of different independent systems that may join or leave the overall SoS at arbitrary point in times the SoS structure varies during the systems lifetime and the overall SoS behavior emerges from the capabilities of the contained subsystems In such complex system ensembles new demands of understanding the interaction among subsystems the coupling of shared system knowledge and the influence of local adaptation strategies to the overall resulting system behavior arise In this report we formulate research questions with the focus of modeling interactions between system parts inside a SoS Furthermore we define our notion of important system types and terms by retrieving the current state of the art from literature Having a common understanding of SoS we discuss a set of typical SoS characteristics and derive general requirements for a collaboration modeling language Additionally we retrieve a broad spectrum of real scenarios and frameworks from literature and discuss how these scenarios cope with different characteristics of SoS Finally we discuss the state of the art for existing modeling languages that cope with collaborations for different system types such as SoS

Formal Methods and Software Engineering Zhenhua Duan,Luke Ong,2017-10-13 This book constitutes the refereed proceedings of the 19th International Conference on Formal Engineering Methods ICFEM 2017 held in Xi an China in November 2017 The 28 revised full papers presented together with one invited talk and two abstracts of invited talks were carefully reviewed and selected from 80 submissions The conference focuses on all areas related to formal engineering methods such as verification and validation software engineering formal specification and modeling software security and software reliability

Systems, Automation and Control Nabil Derbel,2016-10-10 Extended versions of awarded contributions of the International Conference on Systems Analysis and Automatic Control Barcelona 2014 Among the topics are Adaptive Control Predictive Control Fuzzy Logic Control System Identification Expert and Knowledge Based Systems Nonlinear Systems Human Machine Systems Intelligent User Interface Human Machine Design and Evaluation Learning Control Uncertain Systems Supervision

Architecting Dependable Systems III Rogério de Lemos,Cristina Gacek,2005-09-15 As software systems become ubiquitous the issues of dependability become more and more crucial Given that solutions to these issues must be considered from the very beginning of the design process it is reasonable that dependability is addressed at the architectural level This book comes as a result of an effort to bring together the research communities of software architectures and dependability This state of the art survey contains 16 carefully selected papers originating from the Twin Workshops on Architecting Dependable Systems WADS 2004 accomplished as part of the International Conference on Software Engineering ICSE 2004 in Edinburgh UK and of the International Conference on Dependable Systems and Networks DSN 2004 in Florence Italy The papers are organised in topical sections on architectures for dependable services monitoring and reconfiguration in software architectures dependability support for software architectures architectural evaluation and architectural abstractions for dependability

Probabilistic Timed Graph

Transformation Systems Maximove, Maria, Giese, Holger, Krause, Christian, 2017-11-30 Today software has become an intrinsic part of complex distributed embedded real time systems The next generation of embedded real time systems will interconnect the today unconnected systems via complex software parts and the service oriented paradigm Therefore besides timed behavior and probabilistic behaviour also structure dynamics where the architecture can be subject to changes at run time e.g. when dynamic binding of service end points is employed or complex collaborations are established dynamically is required However a modeling and analysis approach that combines all these necessary aspects does not exist so far To fill the identified gap we propose Probabilistic Timed Graph Transformation Systems PTGTSs as a high level description language that supports all the necessary aspects of structure dynamics timed behavior and probabilistic behavior We introduce the formal model of PTGTSs in this paper and present a mapping of models with finite state spaces to probabilistic timed automata PTA that allows to use the PRISM model checker to analyze PTGTS models with respect to PTCTL properties

Design Frameworks for Wireless Networks Santosh Kumar Das, Sourav Samanta, Nilanjan Dey, Rajesh Kumar, 2019-08-10 This book provides an overview of the current state of the art in wireless networks around the globe focusing on utilizing the latest artificial intelligence and soft computing techniques to provide design frameworks for wireless networks These techniques play a vital role in developing a more robust algorithm suitable for the dynamic and heterogeneous environment making the network self managed self operational and self configurational and efficiently reducing uncertainties and imprecise information

On the Move to Meaningful Internet Systems 2006: CoopIS, DOA, GADA, and ODBASE Zahir Tari, 2006-10-26

Graph Transformation Juan de Lara, Detlef Plump, 2017-07-03 This book constitutes the refereed proceedings of the 10th International Conference on Graph Transformation ICGT 2017 held as part of STAF 2017 in Marburg Germany in July 2017 The 14 papers presented were carefully reviewed and selected from 23 submissions The papers cover a wide range of topics including theoretical approaches to graph transformation and their verification model driven engineering chemical reactions as well as various applications They are organized in the following topical sections foundations graph language and parsing analysis and verification and model transformation and tools

Behavioral Modeling for Embedded Systems and Technologies: Applications for Design and Implementation Gomes, Luis, Fernandes, Jo?o M., 2009-07-31 This book provides innovative behavior models currently used for developing embedded systems accentuating on graphical and visual notations Provided by publisher

Handbook of Real-Time and Embedded Systems Insup Lee, Joseph Y-T. Leung, Sang H. Son, 2007-07-23 Real time and embedded systems are essential to our lives from controlling car engines and regulating traffic lights to monitoring plane takeoffs and landings to providing up to the minute stock quotes Bringing together researchers from both academia and industry the Handbook of Real Time and Embedded Systems provides comprehensive coverage

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