



Modeling and Optimization of Parallel and Distributed Embedded Systems

Arslan Munir • Ann Gordon-Ross • Sanjay Ranka



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Modeling and Optimization of Parallel and Distributed Embedded Systems Arslan Munir, Ann Gordon-Ross, Sanjay Ranka, 2015-12-28 This book introduces the state of the art in research in parallel and distributed embedded systems which have been enabled by developments in silicon technology micro electro mechanical systems MEMS wireless communications computer networking and digital electronics These systems have diverse applications in domains including military and defense medical automotive and unmanned autonomous vehicles The emphasis of the book is on the modeling and optimization of emerging parallel and distributed embedded systems in relation to the three key design metrics of performance power and dependability Key features Includes an embedded wireless sensor networks case study to help illustrate the modeling and optimization of distributed embedded systems Provides an analysis of multi core many core based embedded systems to explain the modeling and optimization of parallel embedded systems Features an application metrics estimation model Markov modeling for fault tolerance and analysis and queueing theoretic modeling for performance evaluation Discusses optimization approaches for distributed wireless sensor networks high performance and energy efficient techniques at the architecture middleware and software levels for parallel multicore based embedded systems and dynamic optimization methodologies Highlights research challenges and future research directions The book is primarily aimed at researchers in embedded systems however it will also serve as an invaluable reference to senior undergraduate and graduate students with an interest in embedded systems research

Modeling and Optimization of Parallel and Distributed Embedded Systems Arslan Munir, Ann Gordon-Ross, Sanjay Ranka, 2016-02-08 This book introduces the state of the art in research in parallel and distributed embedded systems which have been enabled by developments in silicon technology micro electro mechanical systems MEMS wireless communications computer networking and digital electronics These systems have diverse applications in domains including military and defense medical automotive and unmanned autonomous vehicles The emphasis of the book is on the modeling and optimization of emerging parallel and distributed embedded systems in relation to the three key design metrics of performance power and dependability Key features Includes an embedded wireless sensor networks case study to help illustrate the modeling and optimization of distributed embedded systems Provides an analysis of multi core many core based embedded systems to explain the modeling and optimization of parallel embedded systems Features an application metrics estimation model Markov modeling for fault tolerance and analysis and queueing theoretic modeling for performance evaluation Discusses optimization approaches for distributed wireless sensor networks high performance and energy efficient techniques at the architecture middleware and software levels for parallel multicore based embedded systems and dynamic optimization methodologies Highlights research challenges and future research directions The book is primarily aimed at researchers in embedded systems however it will also serve as an invaluable reference to senior undergraduate and graduate students with an interest in embedded systems research **A flexible**

attitude control system for three-axis stabilized nanosatellites Gordon, Karsten, 2018-03-15 This thesis investigates a new concept for the flexible design and verification of an ADCS for a nanosatellite platform In order to investigate guidelines for the design of a flexible ADCS observations of the satellite market and missions are recorded Following these observations the author formulates design criteria which serve as a reference for the conceptual design of the flexible ADCS The research of the thesis was carried out during the development of TU Berlin s nanosatellite platform TUBiX20 and its first two missions TechnoSat and TUBIN TUBiX20 targets modularity reuse and dependability as main design goals Based on the analysis of design criteria for a flexible ADCS these key design considerations for the TUBiX20 platform were continued for the investigations carried out in this thesis The resulting concept implements the ADCS as a distributed system of devices complemented by a hardware independent core application for state determination and control Drawing on the technique of component based software engineering the system is partitioned into self contained modules which implement unified interfaces These interfaces specify the state quantity of an input or output but also its unit and coordinate system complemented by a mathematical symbol for unambiguous documentation The design and verification process for the TUBiX20 ADCS was also elaborated during the course of this research The approach targets the gradual development of the subsystem from a purely virtual satellite within a closed loop simulation to the verification of the fully integrated system on an air bearing testbed Finally the concurrent realization of the investigated concept within the TechnoSat and TUBIN missions is discussed Starting with the individual ADCS requirements the scalability of the approach is demonstrated in three stages from a coarse but cost and energy efficient configuration to realize a technology demonstration mission with moderate requirements TechnoSat to a high performance configuration to support Earth observation missions TUBIN Diese Dissertation untersucht ein neues Konzept zur flexiblen Entwicklung und Verifikation eines Lageregelungssystems f r eine Nanosatellitenplattform Als Grundlage f r die Erarbeitung eines Leitfadens f r die Entwicklung werden zun chst Beobachtung des Satellitenmarkts sowie konkreter Missionen zusammengetragen Darauf aufbauend formuliert der Autor Entwurfskriterien f r die Konzipierung eines flexiblen Lageregelungssystems Die Dissertation wurde im Rahmen der Entwicklung der TUBiX20 Nanosatellitenplattform und ihrer ersten beiden Missionen TechnoSat und TUBIN an der TU Berlin durchgef hrt TUBiX20 verfolgt Modularit t Wiederverwendung und Zuverl ssigkeit als Entwicklungsziele Diese werden unter der Verwendung der vom Autor hergeleiteten Entwurfskriterien in dieser Arbeit im Kontext des Lageregelungssystems verfeinert Das resultierende Konzept setzt dieses als verteiltes System von Ger ten und einem hardware unabh ngigen Software Kern um Der Software Entwurfstechnik Component based software engineering folgend ist das System in unabh ngige Module unterteilt welche wiederum einheitliche Schnittstellen implementieren Diese Schnittstellen spezifizieren die Zustandsgr en f r die Ein und Ausg nge der Module inklusive Einheit Koordinatensystem und mathematischem Symbol f r eine eindeutige Darstellung Der Entwurfs und Verifikationsprozess f r das TUBiX20 Lageregelungssystem wurde vom Autor

im Rahmen der Arbeit untersucht Hier verfolgt der Ansatz einen schrittweisen bergang von einem virtuellen Satelliten als Simulationsmodell bis hin zur Verifikation des integrierten Systems auf einem Lageregelungsteststand Abschlie end diskutiert die Arbeit die Realisierung des untersuchten Konzepts im Rahmen der Missionen TechnoSat und TUBIN Beginnend mit den jeweiligen Anforderungen wird die Skalierbarkeit des Ansatzes in drei Stufen demonstriert von einer groben aber kosten und energieeffizienten Konfiguration f r eine Technologieerprobungsmission mit moderaten Anforderungen TechnoSat bis hin zu einer Konfiguration f r hochgenaue Lageregelung als Basis f r Erdbeobachtungsmissionen TUBIN

Mobility of Visually Impaired People Edwige Pissaloux,Ramiro Velazquez,2017-08-20 This book discusses the design of the new mobility assistive information and communication technologies ICT devices for the visually impaired The book begins with a definition of the space concept followed by the concept of interaction with a space during mobility and this interaction characteristics The contributors will then examine the neuro cognitive basis of space perception for mobility and different theories of space perception The text presents the existing technologies for space perception sense recovery with stem and iPS cells implants brain plasticity sensory substitution devices multi modal technologies etc the newest technologies for mobility assistance design the way the feedback on environment is conveyed to the end user Methods for formative and summative evaluations of the mobility devices will also be discussed The book concludes with a look to the future trends in research and technology development for mobility assistive information and communication technologies

Computer Science - CACIC 2020 Patricia Pesado,Jorge Eterovic,2021-05-04 This book constitutes revised selected papers from the 26th Argentine Congress on Computer Science CACIC 2020 held in San Justo Buenos Aires Argentina in October 2020 Due to the COVID 19 pandemic the conference was held in a virtual mode The 21 full papers and 3 short papers presented in this volume were carefully reviewed and selected from a total of 118 submissions They were organized in topical sections named intelligent agents and systems distributed and parallel processing computer technology applied to education graphic computation images and visualization software engineering databases and data mining hardware architectures networks and operating systems innovation in software systems signal processing and real time systems innovation in computer science education computer security and digital governance and smart cities

Evolutionary Algorithms for Embedded System Design Rolf Drechsler,Nicole Drechsler,2012-12-06 Evolutionary Algorithms for Embedded System Design describes how Evolutionary Algorithm EA concepts can be applied to circuit and system design an area where time to market demands are critical EAs create an interesting alternative to other approaches since they can be scaled with the problem size and can be easily run on parallel computer systems This book presents several successful EA techniques and shows how they can be applied at different levels of the design process Starting on a high level abstraction where software components are dominant several optimization steps are demonstrated including DSP code optimization and test generation Throughout the book EAs are tested on real world applications and on large problem instances For each application the main

criteria for the successful application in the corresponding domain are discussed In addition contributions from leading international researchers provide the reader with a variety of perspectives including a special focus on the combination of EAs with problem specific heuristics Evolutionary Algorithms for Embedded System Design is an excellent reference for both practitioners working in the area of circuit and system design and for researchers in the field of evolutionary concepts

Embedded System Design: Topics, Techniques and Trends Achim Rettberg, Mauro Zanella, Rainer Dömer, Andreas Gerstlauer, Franz Rammig, 2010-05-09 Over recent years embedded systems have gained an enormous amount of processing power and functionality Many of the formerly external components can now be integrated into a single System on Chip This tendency has resulted in a dramatic reduction in the size and cost of embedded systems As a unique technology the design of embedded systems is an essential element of many innovations Embedded System Design Topics Techniques and Trends presents the technical program of the International Embedded Systems Symposium IESS 2007 held in Irvine California IESS is a unique forum to present novel ideas exchange timely research results and discuss the state of the art and future trends in the field of embedded systems Contributors and participants from both industry and academia take active part in this symposium The IESS conference is organized by the Computer Systems Technology committee TC10 of the International Federation for Information Processing IFIP Timely topics techniques and trends in embedded system design are covered by the chapters in this book including design methodology specification and modeling embedded software and hardware synthesis networks on chip distributed and networked systems and system verification and validation Particular emphasis is paid to automotive and medical applications A set of actual case studies and special aspects in embedded system design are included as well

Formal Methods for Open Object-Based Distributed Systems Gilles Barthe, Frank S. de Boer, 2008-05-29 This book constitutes the refereed proceedings of the 10th IFIP WG 6.1 International Conference on Formal Methods for Open Object Based Distributed Systems FMOODS 2008 held in Oslo Norway in June 2008 The 14 revised full papers presented together with 1 invited lecture were carefully reviewed and selected from 35 submissions The papers cover topics such as semantics of object oriented programming formal techniques for specification analysis and refinement model checking theorem proving and deductive verification type systems and behavioral typing formal methods for service oriented computing integration of quality of service requirements into formal models formal approaches to component based design and applications of formal methods

Formal Modeling and Analysis of Timed Systems Franck Cassez, 2008-09-05 This book constitutes the refereed proceedings of the 6th International Conference on Formal Modeling and Analysis of Timed Systems FORMATS 2008 held in Saint Malo France September 2008 The 17 revised full papers presented together with 3 invited talks were carefully reviewed and selected from 37 submissions The papers are organized in topical sections on extensions of timed automata and semantics timed games and logic case studies model checking of probabilistic systems verification and test timed petri nets

Cyber Security in Parallel and Distributed Computing Dac-Nhuong Le, Raghvendra

Kumar, Brojo Kishore Mishra, Jyotir Moy Chatterjee, Manju Khari, 2019-03-21 The book contains several new concepts techniques applications and case studies for cyber securities in parallel and distributed computing The main objective of this book is to explore the concept of cybersecurity in parallel and distributed computing along with recent research developments in the field Also included are various real time offline applications and case studies in the fields of engineering and computer science and the modern tools and technologies used Information concerning various topics relating to cybersecurity technologies is organized within the sixteen chapters of this book Some of the important topics covered include Research and solutions for the problem of hidden image detection Security aspects of data mining and possible solution techniques A comparative analysis of various methods used in e commerce security and how to perform secure payment transactions in an efficient manner Blockchain technology and how it is crucial to the security industry Security for the Internet of Things Security issues and challenges in distributed computing security such as heterogeneous computing cloud computing fog computing etc Demonstrates the administration task issue in unified cloud situations as a multi target enhancement issue in light of security Explores the concepts of cybercrime and cybersecurity and presents the statistical impact it is having on organizations Security policies and mechanisms various categories of attacks e g denial of service global security architecture along with distribution of security mechanisms Security issues in the healthcare sector with existing solutions and emerging threats Stabilization, Safety, and Security of Distributed Systems Ajoy K. Datta, Maria Gradinariu, 2007-06-27 This book constitutes the refereed proceedings of the 8th International Symposium on Stabilization Safety and Security of Distributed Systems SSS 2006 held in Dallas TX USA in November 2006 The 36 revised full papers and 12 revised short papers presented together with the extended abstracts of 2 invited lectures address all aspects of self stabilization safety and security recovery oriented systems and programming Adoption and Optimization of Embedded and Real-Time Communication Systems Virtanen, Seppo, 2013-01-31 Adoption and Optimization of Embedded and Real Time Communication Systems presents innovative research on the integration of embedded systems real time systems and the developments towards multimedia technology This book is essential for researchers practitioners scientists and IT professionals interested in expanding their knowledge of this interdisciplinary field **Model Optimization Methods for Efficient and Edge AI** Pethuru Raj Chelliah, Amir Masoud Rahmani, Robert Colby, Gayathri Nagasubramanian, Sunku Ranganath, 2025-01-09 Comprehensive overview of the fledgling domain of federated learning FL explaining emerging FL methods architectural approaches enabling frameworks and applications Model Optimization Methods for Efficient and Edge AI explores AI model engineering evaluation refinement optimization and deployment across multiple cloud environments public private edge and hybrid It presents key applications of the AI paradigm including computer vision CV and Natural Language Processing NLP explaining the nitty gritty of federated learning FL and how the FL method is helping to fulfill AI model optimization needs The book also describes tools that vendors have created including FL frameworks and platforms

such as PySyft Tensor Flow Federated TFF FATE Federated AI Technology Enabler Tensor IO and more The first part of the text covers popular AI and ML methods platforms and applications describing leading AI frameworks and libraries in order to clearly articulate how these tools can help with visualizing and implementing highly flexible AI models quickly The second part focuses on federated learning discussing its basic concepts applications platforms and its potential in edge systems such as IoT Other topics covered include Building AI models that are destined to solve several problems with a focus on widely articulated classification regression association clustering and other prediction problems Generating actionable insights through a variety of AI algorithms platforms parallel processing and other enablers Compressing AI models so that computational memory storage and network requirements can be substantially reduced Addressing crucial issues such as data confidentiality data access rights data protection and access to heterogeneous data Overcoming cyberattacks on mission critical software systems by leveraging federated learning

Information Systems Architecture and Technology:

Proceedings of 38th International Conference on Information Systems Architecture and Technology - ISAT 2017

Jerzy Świątek, Leszek Borzemski, Zofia Wilimowska, 2017-09-04 This three volume set of books presents advances in the development of concepts and techniques in the area of new technologies and contemporary information system architectures It guides readers through solving specific research and analytical problems to obtain useful knowledge and business value from the data Each chapter provides an analysis of a specific technical problem followed by the numerical analysis simulation and implementation of the solution to the problem The books constitute the refereed proceedings of the 2017 38th International Conference Information Systems Architecture and Technology or ISAT 2017 held on September 17 19 2017 in Szklarska Porba Poland The conference was organized by the Computer Science and Management Systems Departments Faculty of Computer Science and Management Wrocław University of Technology Poland The papers have been organized into topical parts Part I includes discourses on topics including but not limited to Artificial Intelligence Methods Knowledge Discovery and Data Mining Big Data Knowledge Discovery and Data Mining Knowledge Based Management Internet of Things Cloud Computing and High Performance Computing Distributed Computer Systems Content Delivery Networks and Service Oriented Computing Part II addresses topics including but not limited to System Modelling for Control Recognition and Decision Support Mathematical Modelling in Computer System Design Service Oriented Systems and Cloud Computing and Complex Process Modeling Part III deals with topics including but not limited to Modeling of Manufacturing Processes Modeling an Investment Decision Process Management of Innovation Management of Organization

Proceedings of ELM-2014 Volume 2 Jiuwen Cao, Kezhi Mao, Erik Cambria, Zhihong Man, Kar-Ann Toh, 2014-12-09 This book contains some selected papers from the International Conference on Extreme Learning Machine 2014 which was held in Singapore December 8 10 2014 This conference brought together the researchers and practitioners of Extreme Learning Machine ELM from a variety of fields to promote research and development of learning without iterative tuning The book covers theories

algorithms and applications of ELM It gives the readers a glance of the most recent advances of ELM

Energy Efficiency Moustafa Eissa,2012-10-17 This book is one of the most comprehensive and up to date books written on Energy Efficiency The readers will learn about different technologies for energy efficiency policies and programs to reduce the amount of energy The book provides some studies and specific sets of policies and programs that are implemented in order to maximize the potential for energy efficiency improvement It contains unique insights from scientists with academic and industrial expertise in the field of energy efficiency collected in this multi disciplinary forum

Energy-Efficient Distributed Computing Systems Albert Y. Zomaya,Young Choon Lee,2012-07-26 The energy consumption issue in distributed computing systems raises various monetary environmental and system performance concerns Electricity consumption in the US doubled from 2000 to 2005 From a financial and environmental standpoint reducing the consumption of electricity is important yet these reforms must not lead to performance degradation of the computing systems These contradicting constraints create a suite of complex problems that need to be resolved in order to lead to greener distributed computing systems This book brings together a group of outstanding researchers that investigate the different facets of green and energy efficient distributed computing Key features One of the first books of its kind Features latest research findings on emerging topics by well known scientists Valuable research for grad students postdocs and researchers Research will greatly feed into other technologies and application domains

Embedded Multiprocessors Sundararajan Sriram,Shuvra S. Bhattacharyya,2018-10-03 Techniques for Optimizing Multiprocessor Implementations of Signal Processing Applications An indispensable component of the information age signal processing is embedded in a variety of consumer devices including cell phones and digital television as well as in communication infrastructure such as media servers and cellular base stations Multiple programmable processors along with custom hardware running in parallel are needed to achieve the computation throughput required of such applications Reviews important research in key areas related to the multiprocessor implementation of multimedia systems

Embedded Multiprocessors Scheduling and Synchronization Second Edition presents architectures and design methodologies for parallel systems in embedded digital signal processing DSP applications It discusses application modeling techniques for multimedia systems the incorporation of interprocessor communication costs into multiprocessor scheduling decisions and a modeling methodology the synchronization graph for multiprocessor system performance analysis The book also applies the synchronization graph model to develop hardware and software optimizations that can significantly reduce the interprocessor communication overhead of a given schedule Chronicles recent activity dealing with single chip multiprocessors and dataflow models This edition updates the background material on existing embedded multiprocessors including single chip multiprocessors It also summarizes the new research on dataflow models for signal processing that has been carried out since the publication of the first edition Harness the power of multiprocessors This book explores the optimization of interprocessor communication and synchronization in embedded

multiprocessor systems It shows you how to design multiprocessor computer systems that are streamlined for multimedia applications

Evolutionary Optimization Ruhul Sarker, Masoud Mohammadian, Xin Yao, 2006-04-11 Evolutionary computation techniques have attracted increasing attention in recent years for solving complex optimization problems They are more robust than traditional methods based on formal logics or mathematical programming for many real world OR MS problems Evolutionary computation techniques can deal with complex optimization problems better than traditional optimization techniques However most papers on the application of evolutionary computation techniques to Operations Research Management Science OR MS problems have scattered around in different journals and conference proceedings They also tend to focus on a very special and narrow topic It is the right time that an archival book series publishes a special volume which includes critical reviews of the state of art of those evolutionary computation techniques which have been found particularly useful for OR MS problems and a collection of papers which represent the latest development in tackling various OR MS problems by evolutionary computation techniques This special volume of the book series on Evolutionary Optimization aims at filling in this gap in the current literature The special volume consists of invited papers written by leading searchers in the field All papers were peer reviewed by at least two recognised reviewers The book covers the foundation as well as the practical side of evolutionary optimization

Innovations in Embedded and Real-Time Systems Engineering for Communication Virtanen, Seppo, 2012-04-30 This book has collected the latest research within the field of real time systems engineering and will serve as a vital reference compendium for practitioners and academics Provided by publisher

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Table of Contents Modeling And Optimization Of Parallel And Distributed Embedded Systems Wiley Ieee

1. Understanding the eBook Modeling And Optimization Of Parallel And Distributed Embedded Systems Wiley Ieee
 - The Rise of Digital Reading Modeling And Optimization Of Parallel And Distributed Embedded Systems Wiley Ieee
 - Advantages of eBooks Over Traditional Books
2. Identifying Modeling And Optimization Of Parallel And Distributed Embedded Systems Wiley Ieee
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Modeling And Optimization Of Parallel And Distributed Embedded Systems Wiley Ieee
 - User-Friendly Interface
4. Exploring eBook Recommendations from Modeling And Optimization Of Parallel And Distributed Embedded Systems Wiley Ieee
 - Personalized Recommendations
 - Modeling And Optimization Of Parallel And Distributed Embedded Systems Wiley Ieee User Reviews and Ratings
 - Modeling And Optimization Of Parallel And Distributed Embedded Systems Wiley Ieee and Bestseller Lists
5. Accessing Modeling And Optimization Of Parallel And Distributed Embedded Systems Wiley Ieee Free and Paid eBooks

- Modeling And Optimization Of Parallel And Distributed Embedded Systems Wiley Ieee Public Domain eBooks
- Modeling And Optimization Of Parallel And Distributed Embedded Systems Wiley Ieee eBook Subscription Services
- Modeling And Optimization Of Parallel And Distributed Embedded Systems Wiley Ieee Budget-Friendly Options
- 6. Navigating Modeling And Optimization Of Parallel And Distributed Embedded Systems Wiley Ieee eBook Formats
 - ePub, PDF, MOBI, and More
 - Modeling And Optimization Of Parallel And Distributed Embedded Systems Wiley Ieee Compatibility with Devices
 - Modeling And Optimization Of Parallel And Distributed Embedded Systems Wiley Ieee Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Modeling And Optimization Of Parallel And Distributed Embedded Systems Wiley Ieee
 - Highlighting and Note-Taking Modeling And Optimization Of Parallel And Distributed Embedded Systems Wiley Ieee
 - Interactive Elements Modeling And Optimization Of Parallel And Distributed Embedded Systems Wiley Ieee
- 8. Staying Engaged with Modeling And Optimization Of Parallel And Distributed Embedded Systems Wiley Ieee
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Modeling And Optimization Of Parallel And Distributed Embedded Systems Wiley Ieee
- 9. Balancing eBooks and Physical Books Modeling And Optimization Of Parallel And Distributed Embedded Systems Wiley Ieee
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Modeling And Optimization Of Parallel And Distributed Embedded Systems Wiley Ieee
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Modeling And Optimization Of Parallel And Distributed Embedded Systems Wiley Ieee
 - Setting Reading Goals Modeling And Optimization Of Parallel And Distributed Embedded Systems Wiley Ieee

- Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Modeling And Optimization Of Parallel And Distributed Embedded Systems Wiley Ieee
 - Fact-Checking eBook Content of Modeling And Optimization Of Parallel And Distributed Embedded Systems Wiley Ieee
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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