



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 **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

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 **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 Proceedings of

the 5th International Workshop on Reconfigurable Communication-centric Systems on Chip 2010 - ReCoSoC'10 Michael Hübner,2010 *Physical Layer Multi-Core Prototyping* Maxime Pelcat,Slaheddine Aridhi,Jonathan Piat,Jean-François Nezan,2012-08-11 Base stations developed according to the 3GPP Long Term Evolution LTE standard require unprecedented processing power 3GPP LTE enables data rates beyond hundreds of Mbits s by using advanced technologies necessitating a highly complex LTE physical layer The operating power of base stations is a significant cost for operators and is currently optimized using state of the art hardware solutions such as heterogeneous distributed systems The traditional system design method of porting algorithms to heterogeneous distributed systems based on test and refine methods is a manual thus time

expensive task Physical Layer Multi Core Prototyping A Dataflow Based Approach provides a clear introduction to the 3GPP LTE physical layer and to dataflow based prototyping and programming The difficulties in the process of 3GPP LTE physical layer porting are outlined with particular focus on automatic partitioning and scheduling load balancing and computation latency reduction specifically in systems based on heterogeneous multi core Digital Signal Processors Multi core prototyping methods based on algorithm dataflow modeling and architecture system level modeling are assessed with the goal of automating and optimizing algorithm porting With its analysis of physical layer processing and proposals of parallel programming methods which include automatic partitioning and scheduling Physical Layer Multi Core Prototyping A Dataflow Based Approach is a key resource for researchers and students This study of LTE algorithms which require dynamic or static assignment and dynamic or static scheduling allows readers to reassess and expand their knowledge of this vital component of LTE base station design

Parallel and Distributed Computational Intelligence Francisco Fernández de Vega, Erick Cantú-Paz, 2010-09-18 Offering a global snapshot of parallel and distributed computational intelligence today this volume covers ongoing issues as well as recent exploratory work Topics discussed include GPUs Clusters Grids volunteer computing p2p networks and more

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

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

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web in this paper a system to control the traffic by measuring the real time vehicle density using canny edge detection with digital image processing is proposed this imposing traffic control system offers significant improvement in response time vehicle management automation reliability and overall efficiency over the existing systems

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web working of density based traffic light controller using arduino the working of the project is divided into three steps if there is traffic at all the signals then the system will work normally by controlling the signals one by one if there is no traffic near a signal then the system will skip this signal and will move on to the next one

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web 41 simulation of density based traffic control system using proteus 7 1 497 fig 3 lock diagram of density based traffic control system table 2 no of components used and their quantity components used quantity animated leds 12 4 red 4 yellow and 4 green arduino uno r3 1 proximity infrared obstacle sensor 4 battery 4 logic state 4

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web may 19 2018 it allocates equal time slots to each road irrespective of the traffic density this creates unnecessary waiting for drivers which is not possible every time therefore we propose density based traffic control system which allocates different time slots to each road according to vehicle density

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