



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

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

Handbook on Data Centers Samee U. Khan, Albert Y. Zomaya, 2015-03-16 This handbook offers a comprehensive review of the state of the art research achievements in the field of data centers Contributions from international leading researchers and scholars offer topics in cloud computing virtualization in data centers energy efficient data centers and next generation data center architecture It also comprises current research trends in emerging areas such as data security data protection management and network resource management in data centers Specific attention is devoted to industry needs associated with the challenges faced by data centers such as various

power cooling floor space and associated environmental health and safety issues while still working to support growth without disrupting quality of service The contributions cut across various IT data technology domains as a single source to discuss the interdependencies that need to be supported to enable a virtualized next generation energy efficient economical and environmentally friendly data center This book appeals to a broad spectrum of readers including server storage networking database and applications analysts administrators and architects It is intended for those seeking to gain a stronger grasp on data center networks the fundamental protocol used by the applications and the network the typical network technologies and their design aspects The Handbook of Data Centers is a leading reference on design and implementation for planning implementing and operating data center networks

Multiprocessor Systems on Chip

Torsten Kempf, Gerd Ascheid, Rainer Leupers, 2011-02-11 This book gives a comprehensive introduction to the design challenges of MPSoC platforms focusing on early design space exploration It defines an iterative methodology to increase the abstraction level so that evaluation of design decisions can be performed earlier in the design process These techniques enable exploration on the system level before undertaking time and cost intensive development

Wiley Encyclopedia of Telecommunications, Volume 3 John G. Proakis, 2003 Contains 275 tutorial articles focused on modern

telecommunications topics The contents include articles on communication networks source coding and decoding channel coding and decoding modulation and demodulation optical communications satellite communications underwater acoustic communications radio propagation antennas multiuser communications magnetic storage systems and a variety of standards V 1 p v

Readings in Hardware/Software Co-Design Giovanni De Micheli, Rolf Ernst, Wayne Wolf, 2001-06-19 Embedded system designers are constantly looking for new tools and techniques to help satisfy the exploding demand for consumer information appliances and specialized industrial products One critical barrier to the timely release of embedded system products is integrating the design of the hardware and software systems Hardware software co design is a set of methodologies and techniques specifically created to support the concurrent design of both systems effectively reducing multiple iterations and major redesigns In addition to its critical role in the development of embedded systems many experts believe that co design will be a key design methodology for Systems on a Chip Readings in Hardware Software Co Design presents the papers that have shaped the hardware software co design field since its inception in the early 90s Field experts Giovanni De Micheli Rolf Ernst and Wayne Wolf introduce sections of the book and provide context for the paper that follow This collection provides professionals researchers and graduate students with a single reference source for this critical aspect of computing design Over 50 peer reviewed papers written from leading researchers and designers in the field Selected edited and introduced by three of the fields most eminent researchers and educators Accompanied by an annually updated companion Web site with links and references to recently published papers providing a forum for the editors to comment on how recent work continues or breaks with previous work in the field

Wiley Encyclopedia of

Telecommunications ,2003 *Parallel and Distributed Processing* ,2000 *Proceedings of the 11th International Symposium on System Synthesis* ,1998 This is a collection of papers presented at the 11th International Symposium on System Synthesis It covers topics such as code generation optimization issues application specific synthesis techniques synchronization and interface issues instruction encoding and software synthesis techniques *Handbook of Energy-Aware and Green Computing, Volume 2* Ishfaq Ahmad, Sanjay Ranka, 2013-01-31 This book provides basic and fundamental knowledge of various aspects of energy aware computing at the component software and system level It provides a broad range of topics dealing with power energy and temperature related research areas for individuals from industry and academia **Handbook of Energy-Aware and Green Computing - Two Volume Set** Ishfaq Ahmad, Sanjay Ranka, 2016-02-03 Implementing energy efficient CPUs and peripherals as well as reducing resource consumption have become emerging trends in computing As computers increase in speed and power their energy issues become more and more prevalent The need to develop and promote environmentally friendly computer technologies and systems has also come to the forefront *Proceedings of the Sixth Euromicro Workshop on Parallel and Distributed Processing* Euromicro Workshop on Parallel and Distributed Processing, 1998 This volume covers issues in parallel and distributed processing Coverage includes communications application caching scheduling distributed systems design and verification and real time data organization **Artificial Intelligence (AI)** S. Kanimozhi Suguna, M. Dhivya, Sara Paiva, 2021-05-27 This book aims to bring together leading academic scientists researchers and research scholars to exchange and share their experiences and research results on all aspects of Artificial Intelligence The book provides a premier interdisciplinary platform to present practical challenges and adopted solutions The book addresses the complete functional framework workflow in Artificial Intelligence technology It explores the basic and high level concepts and can serve as a manual for the industry for beginners and the more advanced It covers intelligent and automated systems and its implications to the real world and offers data acquisition and case studies related to data intensive technologies in AI based applications The book will be of interest to researchers professionals scientists professors students of computer science engineering electronics and communications as well as information technology *CASES 2004* Mary Jane Irwin, 2004 *Control of Traffic Systems in Buildings* Sandor A. Markon, Hajime Kita, Hiroshi Kise, Thomas Bartz-Beielstein, 2006-11-22 Transportation systems in buildings are part of everyday life whether ferrying people twenty storeys up to the office or moving luggage at the airport 21st century society relies on them This book presents the latest in analysis and control of transportation systems in buildings focusing primarily on elevator groups The theory and design of passenger and cargo transport systems are covered with operational examples and topics of special interest *Journal of VLSI Signal Processing Systems for Signal, Image, and Video Technology* ,1997 *First IEEE/ACM/IFIP International Conference on Hardware/Software Codesign & System Synthesis* ,2003 **IEEE/ACM/IFIP International Conference on Hardware/Software Codesign & System Synthesis** ,2003

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