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# System-Level Power-Aware Design Techniques in Real-Time Systems

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Osman S. Unsal, Israel Koren, System-Level  
Power-Aware Design Techniques in Real-  
Time Systems, Proceedings of IEEE, Vol. 91,  
No. 7, July 2003.

# Systemlevel Design Techniques For Energyefficient Embedded Systems

**International Conference on VLSI  
Design**



## **Systemlevel Design Techniques For Energyefficient Embedded Systems:**

System-Level Design Techniques for Energy-Efficient Embedded Systems Marcus T. Schmitz, Bashir M. Al-Hashimi, Petru Eles, 2006-01-16 System Level Design Techniques for Energy Efficient Embedded Systems addresses the development and validation of co synthesis techniques that allow an effective design of embedded systems with low energy dissipation The book provides an overview of a system level co design flow illustrating through examples how system performance is influenced at various steps of the flow including allocation mapping and scheduling The book places special emphasis upon system level co synthesis techniques for architectures that contain voltage scalable processors which can dynamically trade off between computational performance and power consumption Throughout the book the introduced co synthesis techniques which target both single mode systems and emerging multi mode applications are applied to numerous benchmarks and real life examples including a realistic smart phone

*System-Level Design Techniques for Energy-Efficient Embedded Systems* Marcus T. Schmitz, Bashir M. Al-Hashimi, Petru Eles, 2008-11-01 System Level Design Techniques for Energy Efficient Embedded Systems addresses the development and validation of co synthesis techniques that allow an effective design of embedded systems with low energy dissipation The book provides an overview of a system level co design flow illustrating through examples how system performance is influenced at various steps of the flow including allocation mapping and scheduling The book places special emphasis upon system level co synthesis techniques for architectures that contain voltage scalable processors which can dynamically trade off between computational performance and power consumption Throughout the book the introduced co synthesis techniques which target both single mode systems and emerging multi mode applications are applied to numerous benchmarks and real life examples including a realistic smart phone

Energy-Efficient Fault-Tolerant Systems Jimson Mathew, Rishad A. Shafik, Dhiraj K. Pradhan, 2013-09-07 This book describes the state of the art in energy efficient fault tolerant embedded systems It covers the entire product lifecycle of electronic systems design analysis and testing and includes discussion of both circuit and system level approaches Readers will be enabled to meet the conflicting design objectives of energy efficiency and fault tolerance for reliability given the up to date techniques presented

**Sustainable ICTs and Management Systems for Green Computing** Hu, Wen-Chen, Kaabouch, Naima, 2012-06-30 This book focuses on information technology using sustainable green computing to reduce energy and resources used Provided by publisher

Advances in Parallel, Distributed Computing Dhinaharan Nagamalai, Eric Renault, Murugan Dhanuskodi, 2011-09-14 This book constitutes the refereed proceedings of the First International Conference on Advances in Parallel Distributed Computing Technologies and Applications PDCTA 2011 held in Tirunelveli India in September 2011 The 64 revised full papers were carefully reviewed and selected from over 400 submissions Providing an excellent international forum for sharing knowledge and results in theory methodology and applications of parallel distributed computing the papers address all current issues in this field with special focus on

algorithms and applications computer networks cyber trust and security wireless networks as well as mobile computing and bioinformatics

Energy-Efficient Embedded System Design Wenjie Huang,2021 The pursuit of energy efficient design in embedded systems has long become a critical issue With improved energy efficiency the systems can incorporate more functionality and support better performances Conventional design techniques innovate in hierarchical design levels from system algorithm architecture to circuit However with the slowing of Moore s effect efforts other than the circuit level design are becoming more promising for the emerging applications In this work we investigate the core signal processing units in wireless communication systems and introduce a suite of new techniques from algorithm to architecture levels to improve energy efficiency First we develop a comprehensive message truncation scheme to mitigate the decoding complexity of non binary LDPC decoders The dynamic channel state is exploited in the initialization stage to reduce message length We then further prune the messages employing the inter iteration decoding state of the core computational unit The arithmetical logic and memory usage could be substantially decreased and therefore reduces the decoder power with the shorter messages We also propose an adaptive offset correction mechanism to minimize the possible performance loss due to message truncation And we develop a novel decoder architecture to accommodate the proposed algorithm designs Second we introduce a new non binary LDPC decoder architecture with a low power memory unit As non binary LDPC decoding is memory intensive and more than half of the power is consumed by memory access the decoder power decreases significantly with the reduced memory power Although over scaling in memory power may introduce soft errors LDPC codes could correct them with the error resilience as channel codes To find the extent to scale memory power we train the decoder with the performance constraint under given channel states before the exploitations Finally we investigate the optimal sequential control policy for the signal tracking of GNSS receivers powered by renewable energy With the proposed greedy and reinforcement learning algorithm the receiver could opportunistically utilize the harvested energy by jointly considering the signal noise ratio of the received signal and the available energy level Different than conventional efforts we could significantly maximize both energy efficiency and system service time with the desired positioning performances

Ambient Intelligence Werner Weber,Jan Rabaey,Emile H.L. Aarts,2005-12-12 Ambient intelligence is the vision of a technology that will become invisibly embedded in our natural surroundings present whenever we need it enabled by simple and effortless interactions attuned to all our senses adaptive to users and context sensitive and autonomous High quality information access and personalized content must be available to everybody anywhere and at any time This book addresses ambient intelligence used to support human contacts and accompany an individual s path through the complicated modern world From the technical standpoint distributed electronic intelligence is addressed as hardware vanishing into the background Devices used for ambient intelligence are small low power low weight and very importantly low cost they collaborate or interact with each other and they are redundant and error tolerant This means that the failure of one device will not cause failure of the whole system Since wired

connections often do not exist radio methods will play an important role for data transfer This book addresses various aspects of ambient intelligence from applications that are imminent since they use essentially existing technologies to ambitious ideas whose realization is still far away due to major unsolved technical challenges Handbook of Parallel Computing Sanguthevar Rajasekaran, John Reif, 2007-12-20 The ability of parallel computing to process large data sets and handle time consuming operations has resulted in unprecedented advances in biological and scientific computing modeling and simulations Exploring these recent developments the Handbook of Parallel Computing Models Algorithms and Applications provides comprehensive coverage on a **ISLPED'03**, 2003 Dissertation Abstracts International, 2007 The British National Bibliography Arthur James Wells, 2004 **Design Techniques for Energy-efficient Embedded and Mobile Computing Systems** Keith S. Vallerio, 2004 **IEEE Workshop on Signal Processing Systems**, 1997 *18th International Conference on VLSI Design* International Conference on VLSI Design, 2005 **2007 International Conference on Parallel Processing** IEEE Staff, 2007 **Digest of Technical Papers**, 2001 Integrated Circuit and System Design, 2005 **Advances in Computer Systems Architecture**, 2005 *Sixth IEEE International High-Level Design Validation and Test Workshop*, 2001 Eighteen full papers and eight short presentations from international engineers and researchers discuss current developments new methodologies and emerging trends in design verification and test The focus of the sixth conference was on hardware software embedded systems and system on chips Topics include for example the automatic validation of pipeline specifications the use of sequential ATPG for model checking formal verification of the Pentium 4 multiplier and using cutwidth to improve symbolic simulation and Boolean satisfiability The volume is not indexed c Book News Inc **IEEE Circuits & Devices**, 2006

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