

2016 17th International Symposium on Quality Electronic Design (ISQED 2016)

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Quality Electronic Design Proceedings

Helmut E. Graeb



Quality Electronic Design Proceedings:

Frontiers of Quality Electronic Design (QED) Ali Iranmanesh, 2023-01-11 Quality Electronic Design QED's landscape spans a vast region where territories of many participating disciplines and technologies overlap This book explores the latest trends in several key topics related to quality electronic design with emphasis on Hardware Security Cybersecurity Machine Learning and application of Artificial Intelligence AI The book includes topics in nonvolatile memories NVM Internet of Things IoT FPGA and Neural Networks

Proceedings of the Eighteenth International Symposium on Quality Electronic Design, 2017

Proceedings of the Twentieth International Symposium on Quality Electronic Design, 2019

Fourth International Symposium on Quality Electronic Design, 2003 ISQED looks into the research development and application of design techniques and methods design processes and EDA design methodologies and tools that address issues that impact the quality of the realization of designs into physical integrated circuits It emphasizes a holistic approach toward design quality and to highlight and accelerate cooperation among the IC Design EDA Semiconductor Process Technology and Manufacturing communities

Electronic Design Automation for IC Implementation, Circuit Design, and Process Technology Luciano Lavagno, Igor L. Markov, Grant Martin, Louis K. Scheffer, 2017-02-03 The second of two volumes in the Electronic Design Automation for Integrated Circuits Handbook Second Edition Electronic Design Automation for IC Implementation Circuit Design and Process Technology thoroughly examines real time logic RTL to GDSII a file format used to transfer data of semiconductor physical layout design flow analog mixed signal design physical verification and technology computer aided design TCAD Chapters contributed by leading experts authoritatively discuss design for manufacturability DFM at the nanoscale power supply network design and analysis design modeling and much more New to This Edition Major updates appearing in the initial phases of the design flow where the level of abstraction keeps rising to support more functionality with lower non recurring engineering NRE costs Significant revisions reflected in the final phases of the design flow where the complexity due to smaller and smaller geometries is compounded by the slow progress of shorter wavelength lithography New coverage of cutting edge applications and approaches realized in the decade since publication of the previous edition these are illustrated by new chapters on 3D circuit integration and clock design Offering improved depth and modernity Electronic Design Automation for IC Implementation Circuit Design and Process Technology provides a valuable state of the art reference for electronic design automation EDA students researchers and professionals

Proceedings of the Seventeenth International Symposium on Quality Electronic Design, 2016

Machine Learning Applications in Electronic Design Automation Haoxing Ren, Jiang Hu, 2023-01-01 This book serves as a single source reference to key machine learning ML applications and methods in digital and analog design and verification Experts from academia and industry cover a wide range of the latest research on ML applications in electronic design automation EDA including analysis and optimization of digital design analysis and

optimization of analog design as well as functional verification FPGA and system level designs design for manufacturing DFM and design space exploration The authors also cover key ML methods such as classical ML deep learning models such as convolutional neural networks CNNs graph neural networks GNNs generative adversarial networks GANs and optimization methods such as reinforcement learning RL and Bayesian optimization BO All of these topics are valuable to chip designers and EDA developers and researchers working in digital and analog designs and verification

Design Methodologies for Secure Embedded Systems Alexander Biedermann,Gregor H Molter,2010-11-29 Embedded systems have been almost invisibly pervading our daily lives for several decades They facilitate smooth operations in avionics automotive electronics or telecommunication New problems arise by the increasing employment interconnection and communication of embedded systems in heterogeneous environments How secure are these embedded systems against attacks or breakdowns Therefore how can embedded systems be designed to be more secure How can embedded systems autonomically react to threats Facing these questions Sorin A Huss is significantly involved in the exploration of design methodologies for secure embedded systems This Festschrift is dedicated to him and his research on the occasion of his 60th birthday

Advances in Analog Circuits Esteban Tlelo-Cuautle,2011-02-02 This book highlights key design issues and challenges to guarantee the development of successful applications of analog circuits Researchers around the world share acquired experience and insights to develop advances in analog circuit design modeling and simulation The key contributions of the sixteen chapters focus on recent advances in analog circuits to accomplish academic or industrial target specifications

Design and Test Technology for Dependable Systems-on-Chip Ubar, Raimund,Raik, Jaan,Vierhaus, Heinrich Theodor,2010-12-31 This book covers aspects of system design and efficient modelling and also introduces various fault models and fault mechanisms associated with digital circuits integrated into System on Chip SoC Multi Processor System on Chip MPSoC or Network on Chip NoC

Advanced Techniques in Logic Synthesis, Optimizations and Applications Kanupriya Gulati,2010-11-25 This book covers recent advances in the field of logic synthesis and design including Boolean Matching Logic Decomposition Boolean satisfiability Advanced Synthesis Techniques and Applications of Logic Design All of these topics are valuable to CAD engineers working in Logic Design Logic Optimization and Verification Engineers seeking opportunities for optimizing VLSI integrated circuits will find this book as an invaluable reference since there is no existing book that covers this material in a systematic fashion

Digital System Clocking Vojin G. Oklobdzija,Vladimir M. Stojanovic,Dejan M. Markovic,Nikola M. Nedovic,2005-02-25 Provides the only up to date source on the most recent advances in this often complex and fascinating topic The only book to be entirely devoted to clocking Clocking has become one of the most important topics in the field of digital system design A must have book for advanced circuit engineers

Stochastic Process Variation in Deep-Submicron CMOS Amir Zjajo,2013-11-19 One of the most notable features of nanometer scale CMOS technology is the increasing magnitude of variability of the key device parameters affecting performance of integrated circuits The growth of variability

can be attributed to multiple factors including the difficulty of manufacturing control the emergence of new systematic variation generating mechanisms and most importantly the increase in atomic scale randomness where device operation must be described as a stochastic process In addition to wide sense stationary stochastic device variability and temperature variation existence of non stationary stochastic electrical noise associated with fundamental processes in integrated circuit devices represents an elementary limit on the performance of electronic circuits In an attempt to address these issues Stochastic Process Variation in Deep Submicron CMOS Circuits and Algorithms offers unique combination of mathematical treatment of random process variation electrical noise and temperature and necessary circuit realizations for on chip monitoring and performance calibration The associated problems are addressed at various abstraction levels i e circuit level architecture level and system level It therefore provides a broad view on the various solutions that have to be used and their possible combination in very effective complementary techniques for both analog mixed signal and digital circuits The feasibility of the described algorithms and built in circuitry has been verified by measurements from the silicon prototypes fabricated in standard 90 nm and 65 nm CMOS technology

Power Distribution Networks with On-Chip Decoupling Capacitors Renatas Jakushokas, Mikhail Popovich, Andrey V. Mezhiba, Selçuk Köse, Eby G. Friedman, 2010-11-23 This book describes methods for distributing power in high speed high complexity integrated circuits with power levels exceeding many tens of watts and power supplies below a volt It provides a broad and cohesive treatment of power distribution systems and related design problems including both circuit network models and design techniques for on chip decoupling capacitors providing insight and intuition into the behavior and design of on chip power distribution systems Organized into subareas to provide a more intuitive flow to the reader this second edition adds more than a hundred pages of new content including inductance models for interdigitated structures design strategies for multi layer power grids advanced methods for efficient power grid design and analysis and methodologies for simultaneously placing on chip multiple power supplies and decoupling capacitors The emphasis of this additional material is on managing the complexity of on chip power distribution networks

Debug Automation from Pre-Silicon to Post-Silicon Mehdi Dehbashi, Görschwin Fey, 2014-09-25 This book describes automated debugging approaches for the bugs and the faults which appear in different abstraction levels of a hardware system The authors employ a transaction based debug approach to systems at the transaction level asserting the correct relation of transactions The automated debug approach for design bugs finds the potential fault candidates at RTL and gate level of a circuit Debug techniques for logic bugs and synchronization bugs are demonstrated enabling readers to localize the most difficult bugs Debug automation for electrical faults delay faults finds the potentially failing speedpaths in a circuit at gate level The various debug approaches described achieve high diagnosis accuracy and reduce the debugging time shortening the IC development cycle and increasing the productivity of designers Describes a unified framework for debug automation used at both pre silicon and post silicon stages Provides approaches for debug automation of a hardware system

at different levels of abstraction i.e chip gate level RTL and transaction level Includes techniques for debug automation of design bugs and electrical faults as well as an infrastructure to debug NoC based multiprocessor SoCs Application of Evolutionary Algorithms for Multi-objective Optimization in VLSI and Embedded Systems M.C. Bhuvaneshwari,2014-08-20 This book describes how evolutionary algorithms EA including genetic algorithms GA and particle swarm optimization PSO can be utilized for solving multi objective optimization problems in the area of embedded and VLSI system design Many complex engineering optimization problems can be modelled as multi objective formulations This book provides an introduction to multi objective optimization using meta heuristic algorithms GA and PSO and how they can be applied to problems like hardware software partitioning in embedded systems circuit partitioning in VLSI design of operational amplifiers in analog VLSI design space exploration in high level synthesis delay fault testing in VLSI testing and scheduling in heterogeneous distributed systems It is shown how in each case the various aspects of the EA namely its representation and operators like crossover mutation etc can be separately formulated to solve these problems This book is intended for design engineers and researchers in the field of VLSI and embedded system design The book introduces the multi objective GA and PSO in a simple and easily understandable way that will appeal to introductory readers Analog Layout Synthesis Helmut E. Graeb,2010-09-28 Integrated circuits are fundamental electronic components in biomedical automotive and many other technical systems A small yet crucial part of a chip consists of analog circuitry This part is still in large part designed by hand and therefore represents not only a bottleneck in the design flow but also a permanent source of design errors responsible for re designs costly in terms of wasted test chips and in terms of lost time to market Layout design is the step of the analog design flow with the least support by commercially available computer aided design tools This book provides a survey of promising new approaches to automated analog layout design which have been described recently and are rapidly being adopted in industry **Advances in Computers and Software Engineering: Reviews, Vol. 2** Sergey Yurish,2020-01-16 The second volume of Advances in Computers and Software Engineering Reviews Book Series contains five chapters written by 10 authors from 4 countries Canada China Italy and UK This book ensures that our readers will stay at the cutting edge of the field and get the right and effective start point and road map for the further researches and developments By this way they will be able to save more time for productive research activity and eliminate routine work With this unique combination of information in each volume the Advances in Computers and Software Engineering Reviews will be of value for scientists and engineers in appropriate industry and at universities **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 Computational Intelligence in Digital and Network Designs and Applications Mourad Fakhfakh,Esteban Tlelo-Cuautle,Patrick Siarry,2015-07-14 This book explains the application of recent advances in computational intelligence algorithms design methodologies and synthesis techniques to

the design of integrated circuits and systems It highlights new biasing and sizing approaches and optimization techniques and their application to the design of high performance digital VLSI radio frequency and mixed signal circuits and systems This second of two related volumes addresses digital and network designs and applications with 12 chapters grouped into parts on digital circuit design network optimization and applications It will be of interest to practitioners and researchers in computer science and electronics engineering engaged with the design of electronic circuits

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