

1. Record Nr.	UNIORUON00308657
Autore	ARNALDI, Francesco
Titolo	Latinitatis Italicae Medii Aevi lexicon, saec. 5. ex.-saec. 11. in. / Franciscus Arnaldi, Paschalis Smiraglia
Pubbl/distr/stampa	Tavarnuzze, Firenze, : SISMELE-Edizioni del Galluzzo, 2001
ISBN	88-8450-020-6
Edizione	[2a ed.]
Descrizione fisica	1 v. (varie sequenze) ; 25 cm
Altri autori (Persone)	SMIRAGLIA, Pasquale
Disciplina	477
Soggetti	LINGUA LATINA MEDIOEVALE - Lessico
Lingua di pubblicazione	Latino
Formato	Materiale a stampa
Livello bibliografico	Monografia

2. Record Nr.	UNINA9910484163603321
Titolo	Integrated Circuit and System Design: Power and Timing Modeling, Optimization and Simulation : 19th International Workshop, PATMOS 2009, Delft, The Netherlands, September 9-11, 2009, Revised Selected Papers / / edited by José Monteiro, Rene van Leuken
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2010
ISBN	1-280-38568-5 9786613563606 3-642-11802-X
Edizione	[1st ed. 2010.]
Descrizione fisica	1 online resource (370 p. 234 illus.)
Collana	Theoretical Computer Science and General Issues, , 2512-2029 ; ; 5953
Classificazione	SS 4800
Altri autori (Persone)	MonteiroJose <1966-> Van LeukenRene
Disciplina	621.39/5
Soggetti	Computer systems Computer programming Computer engineering Computer networks Microprocessors Computer architecture Computer simulation Computers Computer System Implementation Programming Techniques Computer Engineering and Networks Processor Architectures Computer Modelling Computer Hardware
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Keynotes -- Robust Low Power Embedded SRAM Design: From System to Memory Cell -- Variability in Advanced Nanometer Technologies:

Challenges and Solutions -- Subthreshold Circuit Design for Ultra-Low-Power Applications -- Special Session -- SystemC AMS Extensions: New Language -- New Methods -- New Applications -- Session 1: Variability & Statistical Timing -- Process Variation Aware Performance Analysis of Asynchronous Circuits Considering Spatial Correlation -- Interpreting SSTA Results with Correlation -- Residue Arithmetic for Variation-Tolerant Design of Multiply-Add Units -- Exponent Monte Carlo for Quick Statistical Circuit Simulation -- Poster Session 1: Circuit Level Techniques -- Clock Repeater Characterization for Jitter-Aware Clock Tree Synthesis -- A Hardware Implementation of the User-Centric Display Energy Management -- On-chip Thermal Modeling Based on SPICE Simulation -- Switching Noise Optimization in the Wake-Up Phase of Leakage-Aware Power Gating Structures -- Session 2: Power Management -- Application-Specific Temperature Reduction Systematic Methodology for 2D and 3D Networks-on-Chip -- Data-Driven Clock Gating for Digital Filters -- Power Management and Its Impact on Power Supply Noise -- Assertive Dynamic Power Management (AsDPM) Strategy for Globally Scheduled RT Multiprocessor Systems -- Session 3: Low Power Circuits & Technology -- Design Optimization of Low-Power 90nm CMOS SOC Application Using 0.5V Bulk PMOS Dynamic-Threshold with Dual Threshold (MTCMOS): BP-DTMOS-DT Technique -- Crosstalk in High-Performance Asynchronous Designs -- Modeling and Reducing EMI in GALS and Synchronous Systems -- Low-Power Dual-Edge Triggered State Retention Scan Flip-Flop -- Poster Session 2: System Level Techniques -- Multi-granularity NoC Simulation Framework for Early Phase Exploration of SDR Hardware Platforms -- Dynamic Data Type Optimization and Memory Assignment Methodologies -- Accelerating Embedded Software Power Profiling Using Run-Time Power Emulation -- Write Invalidation Analysis in Chip Multiprocessors -- Practical Design Space Exploration of an H264 Decoder for Handheld Devices Using a Virtual Platform -- BSAA: A Switching Activity Analysis and Visualisation Tool for SoC Power Optimisation -- Session 4: Power & Timing Optimization Techniques -- Reducing Timing Overhead in Simultaneously Clock-Gated and Power-Gated Designs by Placement-Aware Clustering -- Low Energy Voltage Dithering in Dual V<sub>DD</sub> Circuits -- Product On-Chip Process Compensation for Low Power and Yield Enhancement -- Session 5: Self-timed Circuits -- Low-Power Soft Error Hardened Latch -- Digital Timing Slack Monitors and Their Specific Insertion Flow for Adaptive Compensation of Variabilities -- Quasi-Delay-Insensitive Computing Device: Methodological Aspects and Practical Implementation -- The Magic Rule of Tiles: Virtual Delay Insensitivity -- Session 6: Low Power Circuit Analysis & Optimization -- Analysis of Power Consumption Using a New Methodology for the Capacitance Modeling of Complex Logic Gates -- A New Methodology for Power-Aware Transistor Sizing: Free Power Recovery (FPR) -- Routing Resistance Influence in Loading Effect on Leakage Analysis -- Session 7: Low Power Design Studies -- Processor Customization for Software Implementation of the AES Algorithm for Wireless Sensor Networks -- An On-Chip Multi-mode Buck DC-DC Converter for Fine-Grain DVS on a Multi-power Domain SoC Using a 65-nm Standard CMOS Logic Process -- Energy Dissipation Reduction of a Cardiac Event Detector in the Sub-V<sub>t</sub> Domain By Architectural Folding -- A New Optimized High-Speed Low-Power Data-Driven Dynamic (D3L) 32-Bit Kogge-Stone Adder.

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#### Sommario/riassunto

This book constitutes the thoroughly refereed post-conference proceedings of 19th International Workshop on Power and Timing Modeling, Optimization and Simulation, PATMOS 2009, featuring

Integrated Circuit and System Design, held in Delft, The Netherlands during September 9-11, 2009. The 26 revised full papers and 10 revised poster papers presented were carefully reviewed and selected from numerous submissions. The papers are organized in topical sections on variability & statistical timing, circuit level techniques, power management, low power circuits & technology, system level techniques, power & timing optimization techniques, self-timed circuits, low power circuit analysis & optimization, and low power design studies. .

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