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System Performance and Evaluation  
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Nota di contenuto	<p>Session 1: Low-Leakage and Subthreshold Circuits -- Subthreshold FIR Filter Architecture for Ultra Low Power Applications -- Reverse Vgs Static CMOS (RVGS-SCMOS); A New Technique for Dynamically Compensating the Process Variations in Sub-threshold Designs -- Improving the Power-Delay Performance in Subthreshold Source-Coupled Logic Circuits -- Design and Evaluation of Mixed 3T-4T FinFET Stacks for Leakage Reduction -- Session 2: Low-Power Methods and Models -- Temporal Discharge Current Driven Clustering for Improved Leakage Power Reduction in Row-Based Power-Gating -- Intelligate: Scalable Dynamic Invariant Learning for Power Reduction -- Analysis of Effects of Input Arrival Time Variations on On-Chip Bus Power Consumption -- Power-Aware Design via Micro-architectural Link to Implementation -- Untraditional Approach to Computer Energy Reduction -- Session 3: Arithmetic and Memories -- Mixed Radix-2 and High-Radix RNS Bases for Low-Power Multiplication -- Power Optimization of Parallel Multipliers in Systems with Variable Word-Length -- A Design Space Comparison of 6T and 8T SRAM Core-Cells -- Latched CMOS DRAM Sense Amplifier Yield Analysis and Optimization -- Session 4: Variability and Statistical Timing -- Understanding the Effect of Intradie Random Process Variations in Nanometer Domino Logic -- A Study on CMOS Time Uncertainty with Technology Scaling -- Static Timing Model Extraction for Combinational Circuits -- A New Bounding Technique for Handling Arbitrary Correlations in Path-Based SSTA -- Statistical Modeling and Analysis of Static Leakage and Dynamic Switching Power -- Session 5: Synchronization and Interconnect -- Logic Synthesis of Handshake Components Using Structural Clustering Techniques -- Fast Universal Synchronizers -- A Performance-Driven Multilevel Framework for the X-Based Full-Chip Router -- PMD: A Low-Power Code for Networks-on-Chip Based on Virtual Channels -- Session 6: Power Supplies and Switching Noise -- Near-Field Mapping System to Scan in Time Domain the Magnetic Emissions of Integrated Circuits -- A Comparison between Two Logic Synthesis Forms from Digital Switching Noise Viewpoint -- Generating Worst-Case Stimuli for Accurate Power Grid Analysis -- Monolithic Multi-mode DC-DC Converter with Gate Voltage Optimization -- Session 7: Low-Power Circuits; Reconfigurable Architectures -- Energy Efficiency of Power-Gating in Low-Power Clocked Storage Elements -- A New Dynamic Logic Circuit Design for an Effective Trade-Off between Noise-Immunity, Performance and Energy Dissipation -- Energy Efficient Elliptic Curve Processor -- Energy Efficient Coarse-Grain Reconfigurable Array for Accelerating Digital Signal Processing -- Power-Efficient Reconfiguration Control in Coarse-Grained Dynamically Reconfigurable Architectures -- Poster</p>

Session 1: Circuits and Methods -- Settling-Optimization-Based Design Approach for Three-Stage Nested-Miller Amplifiers -- Ultra Low Voltage High Speed Differential CMOS Inverter -- Differential Capacitance Analysis -- Automated Synchronous-to-Asynchronous Circuits Conversion: A Survey -- Novel Cross-Transition Elimination Technique Improving Delay and Power Consumption for On-Chip Buses -- Poster Session 2: Power and Delay Modeling -- Analytical High-Level Power Model for LUT-Based Components -- A Formal Approach for Estimating Embedded System Execution Time and Energy Consumption -- Power Dissipation Associated to Internal Effect Transitions in Static CMOS Gates -- Disjoint Region Partitioning for Probabilistic Switching Activity Estimation at Register Transfer Level -- Data Dependence of Delay Distribution for a Planar Bus -- Special Session: Power Optimizations Addressing Reconfigurable Architectures -- Towards Novel Approaches in Design Automation for FPGA Power Optimization -- Smart Enumeration: A Systematic Approach to Exhaustive Search -- An Efficient Approach for Managing Power Consumption Hotspots Distribution on 3D FPGAs -- Interconnect Power Analysis for a Coarse-Grained Reconfigurable Array Processor -- Keynotes (Abstracts) -- Integration of Power Management Units onto the SoC -- Model to Hardware Matching for nm Scale Technologies -- Power and Profit: Engineering in the Envelope.

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Sommario/riassunto

This book constitutes the thoroughly refereed post-conference proceedings of 18th International Workshop on Power and Timing Modeling, Optimization and Simulation, PATMOS 2008, featuring Integrated Circuit and System Design, held in Lisbon, Portugal during September 10-12, 2008. The 31 revised full papers and 10 revised poster papers presented together with 3 invited talks and 4 papers from a special session on reconfigurable architectures were carefully reviewed and selected from numerous submissions. The papers are organized in topical sections on low-leakage and subthreshold circuits, low-power methods and models, arithmetic and memories, variability and statistical timing, synchronization and interconnect, power supplies and switching noise, low-power circuits; reconfigurable architectures, circuits and methods, power and delay modeling, as well as power optimizations addressing reconfigurable architectures.

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