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Nota di contenuto	<p>Session 1: Microprocessor and Implementation -- A Method of Balancing the Global Multi-mode Clock Network in Ultra-large Scale CPU -- Hardware Architecture for the Parallel Generation of Long-Period Random Numbers Using MT Method -- MGTE: A Multi-level Hybrid Verification Platform for a 16-Core Processor -- An Efficient Parallel SURF Algorithm for Multi-core Processor -- A Study of Cache Design in Stream Processor -- Design and Implementation of Dynamically Reconfigurable Token Coherence Protocol for Many-Core Processor -- Dynamic and Online Task Scheduling Algorithm Based on Virtual Compute Group in Many-Core Architecture -- ADL and High Performance Processor Design -- Session 2: Design of Integration Circuit -- The Design of the ROHC Header Compression Accelerator -- A Hardware Implementation of Nussinov RNA Folding Algorithm -- A Configurable Architecture for 1-D Discrete Wavelet Transform -- A Comparison of Folded Architectures for the Discrete Wavelet Transform -- A High Performance DSP System with Fault Tolerant for Space Missions -- The Design and Realization of Campus Information Release Platform Based on Android Framework -- A Word-Length Optimized Hardware Gaussian Random Number Generator Based on the Box-Muller Method -- Session 3: I/O Interconnect -- DAMQ Sharing Scheme for Two Physical Channels in High Performance Router -- Design and Implementation of Dynamic Reliable Virtual Channel for Network-on-Chip -- HCCM: A Hierarchical Cross-Connected Mesh for Network on Chip -- Efficient Broadcast Scheme Based on Sub-network Partition for Many-Core CMPs on Gem5 Simulator -- A Quick Method for Mapping Cores Onto 2D-Mesh Based Networks on Chip -- Session 4: Measurement, Verification, and Others -- A Combined Hardware/Software Measurement for ARM Program Execution Time -- A Low-Complexity Parallel Two-Sided Jacobi Complex SVD Algorithm and Architecture for MIMO Beamforming Systems -- A Thermal-Aware Task Mapping Algorithm for Coarse Grain Reconfigurable Computing System -- DC Offset Mismatch Calibration for Time-Interleaved ADCs in High-Speed OFDM Receivers -- An Novel Graph Model for Loop Mapping on Coarse-Grained Reconfigurable Architectures -- Memristor Working Condition Analysis Based on SPICE Model -- On Stepsize of Fast Subspace Tracking Methods.</p>
Sommario/riassunto	<p>This book constitutes the refereed proceedings of the 16th National Conference on Computer Engineering and Technology, NCCET 2012, held in Shanghai, China, in August 2012. The 27 papers presented were carefully reviewed and selected from 108 submissions. They are organized in topical sections named: microprocessor and implementation; design of integration circuit; I/O interconnect; and measurement, verification, and others.</p>