

1. Record Nr.	UNINA9910437879903321
Titolo	Proceedings of International Conference on VLSI, Communication, Advanced Devices, Signals & Systems and Networking (VCASAN-2013) / / edited by Veena S. Chakravarthi, Yasha Jyothi M. Shirur, Rekha P
Pubbl/distr/stampa	New Delhi : , : Springer India : , : Imprint : Springer, , 2013
ISBN	9788132215240 8132215249
Edizione	[1st ed. 2013.]
Descrizione fisica	1 online resource (xxx, 472 pages) : illustrations (chiefly color)
Collana	Lecture Notes in Electrical Engineering, , 1876-1119 ; ; 258
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Disciplina	620.0042
Soggetti	Electric power production Engineering design Telecommunication Signal processing Electronic circuits Electrical Power Engineering Engineering Design Communications Engineering, Networks Signal, Speech and Image Processing Electronic Circuits and Systems
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"ISSN: 1876-1100." "ISSN: 1876-1119 (electronic)."
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Leveraging Today's Innovation for Tomorrow's Success: Connecting the World from Cloud Data Centers to Consumer's Tablets -- Technology for SMART Home -- Industry Trends and EDA Tool Vendor Readiness for New Inventions in Chip Design -- Semiconductor Technology Enabling Smart Electronics -- Advent of Internet 2.0 and its Implications on the Semiconductor Industry -- Retracing a Humble Path -- BNM Institute of Technology -- Platform SOC for SMART Home -- Electronics and Digital Computing Techniques for Images and Image

Processing -- System Verilog Based SOC Verification Environment for Flash Memory -- Behavioral Modeling of LDO -- Regulated Cascode Preamplifier Based Frontend Readout ASIC "ANUSPARSH" for Resistive Plate Chamber Detector -- Fault Tolerant Reversible Logic for Combinational Circuits: A Survey -- A CMOS Standard Cell Based Time-to-Digital Converter -- Task Migration For 3x3 Tile Based NOC Architecture -- Design and Implementation of an Efficient Multiplier using Vedic Mathematics and Charge Recovery logic -- Error Detection and Correction in Embedded Memories using Cyclic Code -- Determining Standard Cell Drive Strength Based on On-Chip Load Assessment -- Design of 12-Bit Cyclic Vernier Ring Time-to-Digital Converter -- Adder Based Address Generation for Embedded MBIST -- Circuit design Methodologies for Test Power Reduction in Nano Scaled Technologies -- Study of continuous Non-linear FM Pulse Compression Technique -- Performance Evaluation of New Multi Level Spreading Codes For Synchronous DS CDMA Communication -- A Novel Method for Construction of Structured Regular LDPC Codes with Girth Twelve using Gray Code Representations -- Neuro-Curvelet Model for Efficient Image Compression using Vector Quantization -- A Novel Design of Narrowband Band-pass filters on PTFE Laminate using Radial Stubs -- The Design and Simulation of 0.5dB Noise-Figure RF Narrowband LNA -- Design & Development of DC-DC Converter System to Drive a PZT Stack Actuator -- Development of Technique for Making Ohmic Contacts to PEDOT-PSS Films -- A Comparative Study of Performance of Ring Resonator and Disk Resonator in Gas Sensing Applications -- Simulation and Optimization of Channel Mobility in High-k / Metal Gate Nano Scale MOSFETs -- An Improved Artificial Neural Network Based Emotion Classification System for Expressive Facial Images -- DSP-FPGA Based Parallel Architecture for Acquisition and Compression of Instrumented Pipeline Inspection Gauge Data in Real Time -- A Contourlet Transform-Based Versatile Watermarking Algorithm for Medical Images -- Application of Wavelet Shrinkage Denoising Method Based on Genetic Algorithm to Partial Discharge Signals -- Automatic Image Mosaicing using Discrete Cosine Transform -- Visual Cryptography for Color Images with Meaningful Shares using Image Fusion Technique -- Automatic Detection of Microaneurysms from Fundus Images using Morphological Operations -- AERB SG D-25 and IEC 60880 for Certification of Software in Safety Systems of Indian NPP -- Selective Rotation Based CORDIC Architecture for High Speed Applications -- Bio-Inspired Image Processing for Contour Enhancement and Fourier Spectrum Model for Orientation and Motion Detection -- Efficient Color Image Retrieval with Selective Relevance Feedback -- Nonlinear Dynamical Analysis of Speech Signals -- A Survey on Gaze Estimation Techniques -- Handwritten Script Recognition using DCT, Gabor Filter and Wavelet Features at Word Level -- Word Based LID using HMM and Bigram Modeling -- Discrimination of Handwritten and Machine Printed Text in Scanned Document Images -- Harmonic Analysis and its Elimination in Non Linear Loads using Wavelet Transform -- Lanczos Resampling for the Digital Processing of Remotely Sensed Images -- Performance Analysis of Adaptive DOA Estimation Algorithms for Mobile Applications -- Design of Security Schemes for Wireless Sensor Networks Based on Attack Behavior: Proactive Approach -- Ingress Flow Based Triple Token Bucket Traffic Control System for Distributed Networks -- An algorithm to find Minimal Cut-Sets of Complex Network -- IPv6 Based Network Performance metrics using Active Measurements -- A Survey of Virtualization Techniques in Cloud Computing.

keynote speakers and academicians in the International Conference on VLSI, Communication, Analog Designs, Signals and Systems, and Networking (VCASAN-2013), organized by B.N.M. Institute of Technology, Bangalore, India during July 17-19, 2013. The book provides global trends in cutting-edge technologies in electronics and communication engineering. The content of the book is useful to engineers, researchers and academicians as well as industry professionals.
