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Nota di contenuto	Wireless Sphygmomanometer with Data Encryption -- Design and Implementation of Multimedia Social Services on Elgg -- On Migration and Consolidation of VMs in Hybrid CPU-GPU Environments -- A Case of Security Encryption Storage System Based on SAN Environments -- Applying General Probabilistic Neural Network to Adaptive Measurement Fusion -- Reorder Adapting TCP -- A Novel and Feasible System for Rule Anomaly and Behavior Mismatching Diagnosis among Firewalls -- A Secure Routing Protocol to Prevent Co-operative Black Hole Attack in MANET -- IP Address Management in Virtualized Cloud Environments -- A Fuzzy C-Means Method for Determining Motor's Quality Types Based on Current Waveforms -- License Plate Recognition Based on Rough Set -- Electroencephalogram Lifting Recognition Using Unsupervised Gray-Based Competitive Clustering Networks -- Adapting intensity degradation to enhance fisheye images shot inside cup-shaped objects -- A Method to Implementation of Lane Detection under Android System Based on OpenCV -- Automatic Broadcast Soccer Video Analysis, Player Detection and Tracking Based on Color Histogram -- Conversion of 3D Triangular-Meshed Model to Dot Representation -- Image retrieval system base on EMD similarity measure and S-tree -- Tri-axis Accelerometer based body motion detection system -- On Mapping the Sorted-Set Intersection Problem onto a Graphics Processing Unit -- A Novel Double Dynamic Stress Accelerated Degradation Test to Evaluate Power Fade of Batteries for Electric Vehicles -- The Development of Estimating Deviations Directly

from Point Clouds -- Using Modified Digital Halftoning Technique to Design Invisible 2D Barcode by Infrared Detection -- Color Visual Evoked Potential Response for Myopia Subjects -- License Plate Recognition Under NonUniform Illumination -- A Cross-Coupled MIMO Fuel Cell System Design by Using Intelligent Fuzzy-Neural Controller -- The Development of Fuzzy Comprehensive Evaluation and Approaching Degree Toolbox via Matlab -- Deploying autonomous coordinating agent for assessment model in smart urban space: A case study of cozy space design pattern -- Quantum-Membership-Function-Based Adaptive Neural Fuzzy Inference System -- A Set-Checking Algorithm for Mining Maximal Frequent Itemsets from Data Streams -- Parallel Matrix Transposition and Vector Multiplication Using OpenMP -- Designing Parallel Sparse Matrix Transposition Algorithm Using CSR for GPUs -- Analysis of USDA Food Classifications using Neural Network Classifier -- Optimization Path Programming Using Improved Multi-Group Ant Colony Algorithms -- Conceptual Information Retrieval System based on automatically constructed Semantic Word Network -- An Intelligence-Based Approach to Optimal Power Flow Control Considering Flexible AC Transmission Systems -- Modern Heuristic Optimization Approaches for Electrical Power System Applications -- A New Product Design Process – Combining the System Model and VRTC -- The Study of Permanent Magnetic Synchronous Motor Control System through the Combination of BP Neural Network and PID Control -- Power Compensation Methodology for Electric Vehicles -- Model-Based Robust Control for Nonlinear Networked Control Systems -- Control Strategies Development for a Series Hydraulic Hybrid Vehicle Based on Engine Experimental Map -- Japanese Calligraphy Using Whole Body Motion of a Humanoid Robot -- Design and Experiment of the Auto-Alignment Control System for TPS Storage Ring Girder -- A Proposed System for Practicing Industrial Robot Remotely -- An Intelligent Sensorless Drive Strategy for a Brushless DC Motor Based on Back-EMF Detection -- Establishment of the Photovoltaic Simulation System using Mixed Programming with LabVIEW and Simulink -- Implementation of Fuzzy Force Control for an Electro-Hydraulic Servo Press System -- Sizing Cloud Applications with ISO/IEC 19761: A case study -- Development of a Fuzzy-Control-Based Battery Charging Technique for Li-ion Battery Module for Light Electrical Vehicles -- Low-cost and High Speed Eye Tracker -- Using Hedge Algebra to control varied parameter object -- Variable-Speed Wind Generator System with Maximum Output Power Control -- FPGA-Based Control for a Boost PFC Converter with Improved Dynamic Performance -- Robotic Manipulator Trajectory Tracking Using Direct Collocation -- Objective Function Design in Real-number-coding Genetic Algorithm for Laser-cutting Tool-path Minimization -- A Fuzzy Control Load Balancing Method for Dual CAN Bus -- Backup Host Plan for Banking Information System Based on Capacity on Demand Model -- A Design of LED Panel Lamp for Indoor Illumination -- Analysis of Voltage Variations of a Large-Scale Offshore Wind Farm Connected to Taipower Grid -- Source-End Layouts on ESD/LU Reliabilities in an HV 0.25um 60V nLDMOS -- The Functional Catoptric LED Luminaire in T8 Form Factor -- A Sigma Delta ADC Design for Audio Applications -- Applications of ZigBee on Building a Home Automation System -- Design of a Smart Battery System for Laptop Computer -- A Novel Fuzzy Neural Network Controller for Maglev System with Controlled-PM Electromagnets -- CMOS Transimpedance Amplifiers for Optical Wireless Communications -- Dependable Embedded Memory for Intelligent Systems -- Research and Development of Versatile Autonomous Vehicles for Education -- New Ultrasonic Parking Sensor

System in Automobiles -- Using the Gate-Diffusion Input Technique for Low Power Programmable Logic Array Design -- Using LC-3 Soft Core on an FPGA Development Board for Microprocessor Labs -- Executing Linux-based Software of Electronic Design Automation on Windows Platform of Microsoft -- Design of a Transparent Pipeline Based on Synchronous Elastic Circuits -- The Wireless Electric Guitar with Digitally Integrated Effector -- Implementation and Study of Constant-Frequency LLC Resonant Converter -- Exercise Bracelet with Bluetooth Low Energy Module and Accelerometer for Sporting Events -- Design and Implementation of an eBooks Access Control Protocol -- Novel T-Shaped non-Orthogonal Dual-Mode Bandpass Filters with two Differently Structured Resonators -- A Novel Method to Simplify the Structure of Dual-Band Bandpass Filters: Design the Resonators on Combined Substrates -- Constructing an Integrated Communication and Oriented Protocols into EV Preliminary Operation: A Case Study of EV Surveillance Application -- The Design of Capacitive Coupling Bandpass Filter Using Stepped Impedance Resonator -- A Novel Power Effective and Reliable Wireless Thermal Convection Angular Accelerometer without any Movable Parts and Grooved Cavity -- Parallel Operation of the Piezoelectric Energy Harvest Using the Taguchi Method -- Effect of Anisotropy Parameters on the Initiation of Plastic Yielding in Thin Hollow Disks Subject to Thermo-Mechanical Loading -- Development of MEMS Gyroscope Module for Rotating Machine Performance Characterization -- Design and Surface Roughness Analysis of Thin-Sheet Plastic Injection Forming -- A Comparison of Correlation Technique and Random Decrement Algorithm for Modal Identification from Nonstationary Ambient Vibration Data Only -- Effect of Annealing Temperature on the Mechanical Properties and the Spherical Indentation of NiTi Shape Memory Alloy -- The Analysis of Engine Intake Air Cooling Device by Using Thermoelectric Module -- Effects of Deposition Temperature and Hydrogen Plasma on the Properties of the Radio Frequency Magnetron Sputtering Deposition ZnO-Al2O3 Films -- The Influences of Post Annealing Temperature on the Properties of Sr0.6Ba0.4Nb2O6 Thin Films -- Improving the Properties of Sol-Gel Deposition SrBi4Ti4O15 Thin Films by Post-Annealing Process -- Water Tank Simulation of a Continuous Hot-Dip Galvanized Zinc Pot -- The Finite Element Analysis study of the laser lift-off (LLO) of III-nitride compound -- Combining Quality Function Deployment and TRIZ to Solve the Drainer Problems -- A Study on Improving Polishing Process Effectiveness for Silicon Reclaim Wafer -- Detection of CO Concentration by using SnO2 SPR Apparatus and Common-Path Heterodyne Interferometer -- Magnetic field correction based on intelligent shimming method -- Innovative Designs for Quartz Crystal Microbalance -- Semi-active Control of Tunable Hybrid Shape Memory Material for Vibration Attenuation -- Simultaneous thickness measurement and material composition analysis using X-ray Fluorescence technique -- Integration Design and installation of girder systems in the injection section of Taiwan Photon Source -- FTIR Characterizations of the Gamma-Ray-Irradiated Silica Nanoparticles/-APTES Nanocomposite with UV Annealing -- Improvement of Radiation-Induced Degradation in MOSFET by Using Glass Fiber/Epoxy/Silica Nanoparticles/-APTES Composite as Shielding Materials for High Energy Radiation -- An Invention of Pneumatically Powered and Charged LED Flashlight -- The invention in the safety protection device of the table saw -- Applying the Principles of Lean Manufacturing to Optimize Conduit Installation Process -- Portable Measurement System for Static and Dynamic Characterization of MEMS Component -- Effects of BaTi4O9 Concentration on Dielectric

Constants of the Polyetherimide/BaTi4O9 Composites -- Design the Bandwidth of Zero Phase Filter of Iterative Learning Controller by Improved Particle Swarm Optimization -- Prognostic Diagnosis of Hollow Ball Screw Pretension on Preload Loss through Sensed Vibration Signals -- Simulation and Experiment of Langevin Type Piezoelectric Ultrasonic Horn for Micro Tool Motion -- A New Low-Temperature Fabrication Method of Dye-Sensitized Solar Cells -- A Cell Culture System with Programmable Physical Stimulation for Human Mesenchymal Stem Cell Differentiation and Promotion -- A Spray Method for Dye Sensitized Solar Cells -- An Intelligent Approach for High Material Removal Rate Machining -- The Position and Correction System of Laser PSD -- Study of Cutting Parameter Effect on Spindle Vibration .

Sommario/riassunto

This book concentrates on intelligent technologies as it relates to engineering systems. The book covers the following topics: networking, signal processing, artificial intelligence, control and software engineering, intelligent electronic circuits and systems, communications, and materials and mechanical engineering. The book is a collection of original papers that have been reviewed by technical editors. These papers were presented at the International Conference on Intelligent Technologies and Engineering Systems, held Dec. 13-15, 2012.