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Nota di contenuto	The “Four Element Groups” and the “Change Rate” Concepts and their Realization in the MM&S: A Computer Program for Modeling and Simulation of Dynamic Systems -- A Software Architecture for Inventory Management System -- Libraries Opt for More Online Sources -- Emerging Threats, Risk, and Attacks in Distributed Systems: Cloud Computing -- Cognitive Antenna System for Sustainable Adaptive Radio Interfaces -- Introducing The Concept Of Information Pixels And The SIPA (Storing Information Pixels Addresses) Method As an Efficient Model for Document Storage -- Introducing The Concept Of Back-Inking As an Efficient Model For Document Retrieval (Image Reconstruction) -- Automating the Transformation From a Prototype to a Method of Assembly -- Collaborative and Non-Collaborative Dynamic Path Prediction Algorithm for Mobile Agents Collision Detection with Dynamic Obstacles in 3-D Space -- Website Analysis of Top 100 Most Valuable Companies in Romania -- Comparison of PI and Fractional PI Controllers on a Hydraulic Canal Using Pareto Fronts -- Remote Sensing Investigation of Red Mud Catastrophe and Results of Image

Processing Assessment -- 802.11e QoS Performance Evaluation -- Evaluation of Different Designs to Represent Missing Information in SQL Databases -- Mobile English Learning System: A Conceptual Framework for Malaysian Primary School -- Dynamic Cache Miss-Rate Reduction -- Agent Simulation Group on the Robocup 3-D Realization of Basic Motions -- Key Generations Model for Mobile Cryptosystems -- Development of Stakeholder Oriented Corporate Information Security Objectives -- Stakeholder Oriented Information Security Reporting -- Experimenting with Watchdog Implementation on a Real-life Ad-Hoc Network: Monitoring Selfish Behavior -- Power Consumption Evaluation for Cooperative Localization Services -- A Modified Banker's Algorithm -- Courses Enrollment Pattern Analysis -- Integration of Safety and Smartness Using Cloud Services: An Insight to the Future -- A Versioning Subsystem of Meta-modeling System -- Difficulties in Understanding Object Oriented Programming Concepts -- Real-Time System for Monitoring and Analyzing Personal Electrocardiogram on Cell Phone -- Research of Camera Track Based on Image Matching -- Curriculum Design Change of the Industrial Engineering BA Program -- Comparing Two Methods of Sound Spatialization: Vector-Based Amplitude Panning vs. Linear Panning -- Contrast Enhancement in Image Pre-Compensation for Computer Users with Visual Aberrations -- Interaction with 3-D Environments using Multi-Touch Screens -- TCP with Extended Window Scaling -- Offering SaaS as SOA Services -- Using Conceptual Mini-Games for Learning: The Case of "The Numbers' Race" (TNR) Application -- Visual Cryptography Based on Optical Image Projection -- A New Service Offered by Digital Radio for Vehicle Drivers -- Separation of Concerns in Extensible Control Systems -- Illicit Image Detection: An MRF Model-Based Stochastic Approach -- Illicit Image Detection using Erotic Pose Estimation Based on Kinematic Constraints -- Energy Efficient Public Key Cryptography in Wireless Sensor Networks -- Implementation of VLSB Stegnography using Modular Distance Technique -- A Graphic User Interface for H-Infinity Static Output Feedback Controller Design -- Active Contour Texture Segmentation in Modulus Wavelet Feature Spaces -- A Framework for Verification of Fuzzy Rule Bases Representing Clinical Guidelines -- Communication Impact on Project Oriented Teaching in Technology Supported Education -- A Failure Modes and Effects Analysis of Mobile Health Monitoring Systems -- SemFus: Semantic Fusion Framework Based on JDL -- Development of GUI- Based Test and Measurement Facilities for Studying Properties of MOS Devices in Clean Room Environment -- Prediction of Failure Risk through Logical Decision Trees in Web Service Compositions -- SEC-TEEN: A Secure Routing Protocol for Enhanced Efficiency in Wireless Sensor Networks -- An Integration of UML-B and Object-Z in Software Development Process -- Algorithm for Dynamic Traffic Rerouting and Congestion Prevention in IP Networks -- Fovea Window for Wavelet-Based Compression -- Energy-Aware Data Compression in WSN -- Energy Consumption Text and Image Data Compression in WSNs -- New QoS Framework for Mobile Ad-hoc Networks Based on the Extension of Existing QoS Models -- Method for Data Collection and Integration into 3-D Architectural Model -- Statistical Analysis to Export an Equation in Order to Determine Heat of Combustion in Blends of Diesel Fuel with Biodiesel -- The Retail Banking Adverse Selection: RCBS Calculator Solution -- Project Management in Public Administration Sector -- Access Point Checking to Improve Security in Wireless Infrastructure Networks -- Comparison of Fractional PI controller with Classical PI using Pareto Optimal Fronts -- A Pattern-Based Approach for Representing Condition-Action Clinical Rules into DSSs --

Authorization of Proxy Digital Signature in Workflow Systems -- Semi-agile Approach to Software Development Process -- The Influence of Student Body-talk Reaction in Formulating Effective Teaching Strategy -- Interactive Mind Map Desktop Widget – A Proposed Concept -- An Algorithm for Replication in Distributed Databases -- General Dispatching of Lignite Mining Pit -- Towards Improving the Statscan™ X-ray Image Quality through Sliding Mode Control of the C-arm -- Mechanical Energy Conversion to Electromagnetic Energy for Magnetic Fluids: Theoretical Fundaments and Applications -- Initial Steps towards Distributed Implementation of M-Urgency -- Optimal Selection of Components in Fault Detection Based on Principal Component Analysis -- E-Learning Environment Identification System: Error Injection and Patterns Dynamics -- Energy Consumption Deploying a Reactive Multi-agent System Inside Wireless Sensor Networks -- Network Intrusion Detection System Based on SOA (NIDS-SOA): Enhancing Interoperability Between IDS -- Lyrebird: A Learning Object Repository Based on a Domain Taxonomy Model -- Design Process and Building Simulation -- Behavioral Models with Alternative Alphabets -- Watermark Singular-Values Encryption and Embedding in the Frequency Domain -- Business Intelligence Made Simple -- A Process Model for Supporting the Management of Distance Learning Courses through an Agile Approach -- Numerical Modeling of Electromagnetic Induction Heating Process using an Inductor with Constant Step between Turns -- Satisficing-Based Approach to Resolve Feature Interactions in Control Systems -- Properties Evaluation of an Approach Based on Probability-Possibility Transformation -- Functional Verification of Class Invariants in CleanJava -- Normalization Rules of the Object-Oriented Data Model -- Location-Based Overlapping Mobility-Aware Network Model -- Expert System for Evaluating Learning Management Systems Based on Traceability -- How Variability Helps to Make Components More Flexible and Reusable -- Computing and Automation in the AEC Industry: Early Steps towards a Mass Customized Architecture -- Three-Dimensional SPMD Matrix-Matrix Multiplication Algorithm and a Stacked Many-Core Processor Architecture -- FACE: Fractal Analysis in Cell Engineering -- A First Implementation of the Delay-Based Routing Protocol -- Different Aspects of Data Stream Clustering -- Teaching Computer Ethics via Current News Articles -- Designing and Integrating a New Model of Semi Online Vehicle’s Fines Control System -- Computer Generative Design Systems and the Production of Differentiated Housing Projects -- A Framework Intelligent Mobile for Diagnosis Contact Lenses by Applying Case-Based Reasoning.

Sommario/riassunto

Innovations and Advances in Computer, Information, Systems Sciences, and Engineering includes the proceedings of the International Joint Conferences on Computer, Information, and Systems Sciences, and Engineering (CISSE 2011). The contents of this book are a set of rigorously reviewed, world-class manuscripts addressing and detailing state-of-the-art research projects in the areas of Industrial Electronics, Technology and Automation, Telecommunications and Networking, Systems, Computing Sciences and Software Engineering, Engineering Education, Instructional Technology, Assessment, and E-learning.