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Nota di bibliografia	Includes bibliographical references at the end of each chapters and indexes.
Nota di contenuto	Advances in Mechatronics and Control Engineering III; Preface and Conference Organization; Table of Contents; Chapter 1: Artificial Intelligence, Algorithms and Computation Methods; A New Random Encryption Algorithm for Character Type Cipher; Exploiting Thread-Level Parallelism Based on Balancing Load for Speculative Multithreading; FNMF-ITWC Algorithm Applied to the Cancer Gene Expression Data; Fuzzy Set Based Clustering Algorithm of Web Text; MIMU Parameter Identification for Large Misalignment Angles Based on AFSA; Reduction of Risk Control Indicators of ERP System Based on Rough Set Research on Stereo Matching Algorithm in Intelligent Vehicle Application Researching on the Single Lock Chamber Automatic Layout Algorithm; Rough and Fuzzy Set Based Classification Algorithm on Computer Practice Teaching Evaluation; Scheduling Based on an Ant Colony Algorithm with Crossover Operator; Study of Parameters Configuration in Ant Colony Algorithm; Study on the Soft Time Windows Vehicle Synthesis Algorithm Based on Genetic; A New Forecasting Model of Fuzzy Time Series; An Improved Forecasting Model of Fuzzy Time Series; Key Technology in a Lightweight WPF-

Based Electronic Map Engine

Improved Ant Colony Algorithm on Scheduling Optimization of Cloud Computing Resources
Chapter 2: Mathematical Methods and Data Mining, Information Technologies in Industry; A Novel Four-Order Chaotic System with N-Attractor Multi-Direction Multi-Scroll Attractors; An Optimization and Planning Method Research to Determine Power Transmission Capacity of Clustering Wind Farms Accounting Risk; Association-Analysis-Based Research on Self-Healing of Information System and its Application

Discussion on a New Calculation Method for Missing True Formation Thickness - A Case Study from YM32 Area in Northern Tarim Basin

Equilibriums of an SIS Epidemic Model; Necessity of Bioinformatics in the Setting of Pharmacy; The Weak Convergence of Random Sums of --Mixing Random Sequences; Top-Down Saliency Detection via Hidden Semantic Information; Using a Combined Method to Forecasting Electricity Demand; Origin Fresh Beer Remote Delivery System Based on Cloud Computing Technology

The Research of Technical Architecture of Semi-Structured XBRL Data Based on Hadoop Cluster and Structured Data Exchange System
Chapter 3: Sound, Image, Signal and Video Processing and Technologies; A New Adaptive Threshold Image-Denoising Method Based on Edge Detection; An Edge Detection Algorithm for Image Corrupted by Impulse Noise; An Integrated Saliency Model with Guidance of Eye Movement in Natural Scene Classification; Application of Improved Sobel Algorithm in Medical Image Edge Detection; Application of Infrared Binocular Vision for Monitoring Moving Target in Port
Color Images Illumination Compensation Method for Human Face Region Detection

Sommario/riassunto

Collection of selected, peer reviewed papers from the 2014 3rd International Conference on Mechatronics and Control Engineering (ICMCE 2014), August 27-28, 2014, Zhuhai, China. The 135 papers are grouped as follows: Chapter 1: Artificial Intelligence, Algorithms and Computation Methods; Chapter 2: Mathematical Methods and Data Mining, Information Technologies in Industry; Chapter 3: Sound, Image, Signal and Video Processing and Technologies; Chapter 4: Sensors, Testing, Detection, Instrumentation, Measurement and Monitoring Technologies; Chapter 5: Design Technologies in Mechatronics, Industri
