Table of Contents

Preface

Chapter 1: Materials Science and Processing Technologies

Experimental Study of Temper Embrittlement of 2.25Cr-1Mo-0.25V Steel Weld Metals
L.P. Song and R.L. Sun 3

The XRD Patterns Analysis of Diamond/Porous Composite Membrane Deposited by Bias Voltage Assisted HFCVD
C.C. Zhao, X.W. Li, X.M. Chen and M. Chang 7

Influence on the Microstructure of Pinion Steel with Different Cooling Rates after Normalizing
Z.J. He, J. Li and J.X. Liu 12

Study on Beam-End Carrying Capacity of Waste Fiber Recycled Concrete Beam-Column Joints
J.H. Zhou, S.J. Bai and C. Bian 16

The Comparison of Self-Compacting Rock-Filled Concrete with Large-Size Natural and Recycled Aggregate
H.C. Wang, X.H. Wang and X.H. An 20

Study on Properties of Al2O3-CaO-SiO2-CaF2-MgO Slag System
J.M. Guo, K.W. Peng, L. Yi, H.L. Ma and R. Chen 24

Helicon Plasma Discharge for Processing Wall Material
T.Y. Huang, C.G. Jin, M.Z. Wu, L.J. Zhuge and X.M. Wu 28

W-Doped TiO2 Preparation and Photocatalytic Degradation of Guaiacol
Z.C. Xie, Y. Wang, P. Wang and L. Zhang 33

The Application of PE/Thermochromic Composite Film to Sliced Fresh Pork Tenderloin
H.G. Zhang, F.X. Yang and Y. Lu 37

Study on the Fluidic Parameters of Supercritical CO2
X.Y. Gao, G.Q. Liu and W.P. Chang 41

Study on the Stability of a New Propellant
F. Cao, L. Meng, Z.T. An and W.P. Chang 45

The Effect of Dy-Additive on Phase Transformation and Magnetic Properties of Fe-Pt Alloy Films
G. Cheng, Y.Z. Sun, K. Pan, L. Li, L. Ma and Z.F. Gu 48

Influence of Oxygen Plasma Modification Carbon Fiber on the Hydrothermal Property of CF/PES-C Composite
X. Cui, G.L. Liu, C. Lu and S. Wang 51

Measurement of Growth Kinetics of Deeply Undercooled Zr50Cu50 Melt by Electromagnetic Levitation Technique
L.X. Li, J.L. Zhao and X.M. Guan 56

Experimental Research on Performance of Road Base with Cement Stabilized Iron Tailings Sand
H.B. Li 60

A New Approach to Fluorescent Chemosensor of Cu2+ Ion
X.J. Hu, X.Y. Hu and Z. Zhang 65

Research on the Magnetism of Yttrium Doped Zinc Oxide Film
Z.H. Lan and X.J. Miao 70

Ultraviolet Laser Induced Damage Characteristic of SiO2 Single Layers
W. Sun, H.J. Qi, Z. Fang, Z.K. Yu and H.Y. Li 74

Simple Preparation of Well-Dispersed Nanosized α-Fe2O3

The Preparation and Characterization of the Mesoporous Poly(bisphenol-A carbonate) – Silica Nanocomposites
Synthesis and Characterization of an Amphiphilic Nanoparticles Based on Chitosan Oligosaccharide-Grafted-Polycaprolactone
F.H. Li, W.J. Zhang, S.X. Li, Y.M. Chen and X.R. Zhang 86

Finite Element Analysis of the Vibration Characteristics of Castellated Composite Beams
B.C. Yu and G.D. Wang 91

Preparation and Properties of Biodegradable Polyurethane Scaffolds for Tissue Engineering
X.Y. He, Y.J. Xu, Y.J. Wang, G. Wu and B. Yuan 95

Production Parameters Optimization of Polyacrylonitrile Precursor Fiber
Y. Wang, Y.S. Ding and K.R. Hao 100

Testing Study on Rock-Like Materials under Water Pressure Conditions
X.G. Wang, W.S. Zhu, B. Gong and X.Z. Wu 104

Research on the Preparation of Economical Powder Concrete-UHPC
K. Wu and S.C. Zhao 108

The Study on Young's Modulus of Multilayered Cu/Ni Multilayered Nano Thin Films by Molecular Dynamics Simulation
J.C. Huang, F.J. Cheng and C.S. Yang 113

Synthesis and Properties of Novel Phenolic Resin Grafted Hydrolyzed Polyacrylonitrile Copolymer as Fluid-Loss-Control Additive

Effect of Composition on Microstructure and Dynamic Mechanical Properties of W-Ni-Cu Alloys
H. Zou, Y.C. Wang and S.K. Li 121

Effect of Y Addition on Wear Property of Ni-Mn-Ga Shape Memory Alloys
A.L. Liu, J.W. Xu, L. Gao and B.Y. Qian 125

Research and Application of Recycled Paper
Y.P. Liu, Y. Yan and F. Qiao 129

Experimental Study on Seismic Performance of Small Span-to-Depth Ratio Coupling Beams with PVA Fiber Reinforced Concrete
Y.X. Ye, L.H. Qin, T. Liu and X.Y. Sun 134

The Research of Solvothermal Method Preparation of Y_{2}O_{3}:Eu^{3+}, Mg^{2+}, Ti^{4+}\text{Water-Soluble Red Afterglow Materials}

Preparation of PLLA/HAP/β-TCP Composite Scaffold for Bone Tissue Engineering
X.J. Wang, T. Lou, J. Yang, Z. Yang and K.P. He 143

Influence of Degrease Rate of Larix by High Temperature and Pressure
H.C. Qi and Y.X. Sun 147

Effect of High Temperature and Steam on Dimensional Stability of Wood
H.C. Qi and Y.X. Sun 151

Coal Spontaneous Combustion Mechanism and Research of New Flame Retardant Material
W.H. Pang and R.X. Qin 156

Research on Properties of CNF/Glass Fiber/Epoxy Composites
X.K. Chen 161

A Novel Method for Preparing Biomimetic Oleophobic Surface on X70 Pipeline Steel
H. Li and S.R. Yu 165

Experimental Studies on the Influence of Gradation of Recycled Coarse Aggregates to the Strength of Self-Compacting Concrete
H.Q. Liu, Y.L. Liu and L. Gao 169

Effect of K_{2}Cr_{2}O_{7} on Anti-Biofouling Properties of MAO Coating on Titanium Alloy Surface
Q. Yao, S.R. Yu and H.C. Chu 173

Liquid Corrosion Property of Al-12Si-10Cu Energy Storage Alloy
X.H. Zhang and S.R. Yu 177

In Situ Adjustment in Photoelectric Function from the Novel Reactive Polymer Containing Phenanthrenequinone Group
X.J. Zhang, Y. Feng, L.L. Ma and Z.M. Wang 181

Properties of Heterojunction Solar Cells Based on Organic Phosphorescent Material: PPQF
Corrosion Behavior of Duplex Stainless Steels (2205) in Seawater in the Presence of Deep Sea Bacteria
J.G. Odhiambo, L. Zhang, T. Liu, L.H. Dong and Y.S. Yin

Preparation and Characterization of Starch Acetate/Polyvinyl Alcohol Foams
X.Z. Mo, J.B. Jiang, X.M. Huang, F.N. Yu, J.Y. Wu and S.F. Huang

Bimetallic Gold-Palladium Supported on 5A Zeolite and their Catalytic Activity for Vinyl Acetate Synthesis
X.Z. Mo, H.L. Hu, D.F. Tan and T. Guo

Research on Low Velocity Impact Damage of Laminated Composite
S.C. Long, Z.J. Li, G. Kuang, Y.B. He and X.H. Yao

The Effects of High Temperature Deformation on Bainite Transformation
G. Xu, T. Xiong, Y.L. Zhang, M.X. Zhou and Y. Zhang

Pseudo-Dynamic Test Analysis of Plane Steel Frame with Semi-Rigid Connection
X.W. Wang and C.J. Hu

Preparation and Properties of Anaerobic Adhesive Containing 2,3-Glycidyloxypropyl-POSS-Acrylate/Epoxy Acrylate

Magnetization and Hole Doping Effects in Double Perovskite Compound Sr₂FeMoO₆
Q. Zhang

The Conjecture of Obtain C₆H₈O⁺ Fragments by Cycloheptanone Ion Excited State
H.B. Chen, Y. Zhu and J. Wu

Finite Element Modal Analysis of Station of the Main Building Steel Structure Concrete Batch Plant
X.X. Zhou, X.L. Lei and D.M. Han

Prediction of Impact Damage of Composite Laminates Using a Mixed Damage Model
S.Y. Zhao and P. Xue

Modelling and Measurements of Ultrasonic Fields in Composites
H.B. Wang and C.G. Xu

Research on the Numerical Simulation of Cooling Process for Plastic Profile in Calibrator
L. Duan and Y. Zhang

Synthesis of the Carboxyl and Pyridine Functional Ionic Liquids
Y. Xiong and M. Yang

Synthesis and Characterization of a Novel Waterborne Polyurethane Modified by Tung Oil

Optimization of the Metal Finger of a Silicon Concentrator Solar Cell
S.S. Lou, P.D. Han, P. Liang, Y.P. Xing, S.X. Hu and H.S. Zhu

Electrosprayed Microparticulate Solid Dispersions Composed of Multiple Components
W. Qian, D.G. Yu, L. Wang, S.L. Li, Y.F. Wang, C.L. Wu and X. Wang

Effects of Standoff Distance and Particle Size on Quality of NiCoCrAlY Coating by Cold Spraying
S.Q. Feng, B. Ma, X.L. Wang, G. Liu, Z.Y. Zheng and L.P. Pan

A Change of Undrain Shear Strength of Soft Ground during Consolidation Process
Y.M. Park, I.J. Um, N. Miura and S.C. Baek

Study on Raman Spectra of the Polyacrylonitrile Iron Complex Nanofibers
L. Dong, X.D. Liu, X.T. Zhao, Y.C. Dong, B.W. Cheng, X.P. Zhuang and D.D. Meng

Growth Mechanism and Morphology Control of Porous Hexagonal Plates of Hydrohausmannite Prepared by Hydrothermal Method
D. Yan, Y.H. Li, Y. Liu, R.F. Zhuo, Z.G. Wu and J. Wang

Identification of Electrical Fire Melted Marks of Copper Wires by Electron Backscattered Diffraction (EBSD)
C. Sun, M.J. Ding, Y.F. Zhang, X. Tan, P. Wang, W. Wu and Y. Zeng

Temperature-Induced Structure and Morphological Transformation in SnS Prepared by a Chemical Vapor Deposition Method

Computational Studies on O(3P) +CHF2 Reaction Mechanism
L. Guo and Y.L. Xu
Amorphous State and Solubility Simulation of Poly(N-arylenebenzimidazole ketone)
X.W. Cui and L. Zhang 295

Recalculation Yielded the Small Molecule Fragments of $\text{C}_3\text{H}_6^+$ from Low Excited States of $\text{C}_5\text{H}_8\text{O}^+$
Y. Zhu, H.B. Chen and J. Wu 299

Combined Effects of Guard Rings and Buried $n^+$ Layer on Mitigating Charge Collection and Charge Sharing in 90 nm CMOS Process

The Research of the Oil Base Drilling Fluid Hard Brittle Shale Sidewall Instability Mechanism
G.F. Zhen, G.L. Jing, W.J. Hu and B.S. Liao 309

Mechanic Model of Push-Out Test of Over-Thick CFST
J.H. Gao, Y.B. Huang and S.L. Zhang 314

Discrete Wavelet Transform on Near-Infrared Spectra Analysis for Moisture Determination in Lignitic Coal Samples
X.L. Yang, N.B. Hou, J.Y. Shi and Y.F. Li 319

New Method for Assessment Ageing Condition of Oil Impregnated Insulation Pressboard Based on Frequency Domain Spectroscopy
J. Hao, J. Fu, P. Guo, G.L. Wu, Q. Wang and Y. Shuai 323

Breakdown Characteristics of Oil Impregnated Insulation Paper with Different Ageing Condition under the Composite Electric Field
Q. Wang, J. Hao, T. Liu, J. Fu and G.L. Wu 328

Study on the Ultrasonic Extraction of Polysaccharides of Barley Rice
Y.G. Bi and Y.M. Li 332

Study on High Temperature Stability Index of Asphalt Mixture
F.M. Liu 336

Integrated Processing Effects on Ink Wastewater of 500t/Day
J.S. Yang and L. He 340

The Influence of Cetane Additive on Diesel Oil Performance
C. Liang, Y.X. Chu and J. Zhang 343

DFT Investigation of Substitution Effects on the Electronic Properties of Perylene Bisimides Derivatives
B.W. Chen, Y.W. Xu and L. Zhang 347

Based on Grey Relational Analysis Research on Fabrication Parameters of Polypropylene Part by Selective Laser Sintering
Q. Xu and J. Zhang 351

The Study on Main Nutrients Uptake Kinetics by Three Species of Algae
C.Y. Yuan, X. Han and Q.M. Cui 355

The Theory Investigation for the Antioxidant Activity of Phloretin: A Comparation with Naringenin
M.X. Yan, J.D. Gong, P. Shen and C.Y. Yang 359

Research on Infrared Antireflective Characteristics of Two-Dimensional Sub-Wavelength Structures
Q.Y. Xu, Z.Z. Zhao, Y.P. Li, Z.T. Liu, Y.J. Xu and Y.F. Zhu 363

Chapter 2: Information Technologies and Information Processing Algorithms

Research of Information Security Quantitative Evaluation Method
W.L. Zang 369

Vehicle Identification and Classification System Based on Decision Tree
H.S. Wan, S.M. Jiang, Y.Y. Zhang and G.F. Zou 373

Comparison of LLE and PCA Algorithms for Gene Expression Data Analysis
X.Z. Chen, F. Yang, H.M. Li and J.H. Chen 378

An Iterative Method for Equilibrium Problems and Fixed Point Problems
C. Min and Q.H. Jiang 382

A Survey of Intelligence Optimization Algorithm with Thermodynamics
X. Xu, N. Hu and W.Q. Ying 386
Cloud Task and Virtual Machine Allocation Strategy Based on Simulated Annealing-Genetic Algorithm
X. Xu, N. Hu and W.Q. Ying 391

Research on Inland Vessels Remote Monitoring System Based on 3G Network
L. Zhou, N.Y. Cao and W.Y. Xia 395

IaaS Architecture Based on Trusted Computing
W.B. Zhang, Z.S. Bao, J. Li and L.J. Duan 399

Research and Design on SOA-Based Equipment ATS Architecture
G.M. Tang, F.J. Liu and X.B. Sun 403

Process Monitoring System Based on Anomaly Detection Statistics Algorithm
L.J. Zhang 408

An SSVEP-Based BCI System for SMS in a Mobile Phone
J.S. Lin, M. Wang, P.Y. Lia and Z.J. Li 412

Multi-Field-Oriented Personalized Recommendation
J.J. Li, Z.D. Zhao and G.G. Peng 416

The Application of Crime Network Conspirator Finding Model
Y. Zhou and X.Z. Lu 420

Hybrid Key Management Scheme for WSN
N.N. Zhao and J.B. Yao 424

A Homotopic Algorithm of NN and its Application for the End-Point Prediction Model of BOF Process
M.X. Feng, R. Chen and Q. Li 431

Design of Paper Defect Extraction IP Core Based on FPGA
H.S. Dang and L. Wang 435

An Optimization Algorithm of Phase Angle Calculation Based on the FPGA Implementation
Q.Q. Li and Y.H. Zhang 439

Things in Intelligent Agriculture Applications
D.W. Xu, S. Ren and L.P. Yang 444

Adaptive Tracking Algorithm of Multi-Target Based on Fuzzy Clustering
X.H. Hu, L. Guo and H.H. Li 448

Research on the Application of Web 2.0 Technologies in the University Libraries
D. Li 453

An Adaptive Threshold Segmentation Algorithm for Gesture Segmentation
M. Wang, J.S. Lin, Z.X. Fu and G.Q. Meng 457

Research on BSP Algorithm of Construction of Large-Scale 3D Point Model
S. Liu and X.Y. Xie 461

GoogleMap Application Development in Android Platform
S.F. Lin, Y. Zhou, R.Y. Wang and J.J. Zhang 466

Composition Oriented Semantic Relationships Mining Framework Research
Z.D. Zhao, Y.H. Cui and J.J. Li 470

Reverse Logistics Network Design of Waste Electrical Appliances
Y. Liu, Y.F. Zhang and Y.X. Jin 474

K-Means Optimization Algorithms of Initial Clustering Center Based on Regional Density
Y.X. He, R. Cai, L.B. Wu and F. Li 478

A Parallel Subgraph Isomorphism Algorithm on Multi-Core Platform
L. Yuan and W.X. Tian 483

Development of Equipment Management and Monitoring Software for EAST NBI

Traditional Culture Protection System Based on the Virtual Augmented Reality Technology
Y.W. Zhang, W. Zhou, Q. Wang, L.L. Chen and J. Fang 491

Design and Implementation of School Hospital Information Analysis and Mining System
X.S. Wang, Q. Guo, S.S. Li and R.F. Cao 498

A Policy Configuration Approach for BPEL Exception Handling Based on CPN
H. Guan, S. Ying, X.Y. Jia and C.Q. Jiang 502

An Empirical Evaluation of Boosting-BAN and Boosting-MultiTAN
X.W. Sun and H.B. Zhou 506
<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Building Distance Education System Based on Cloud Computing</td>
<td>510</td>
</tr>
<tr>
<td>H.Y. Zhao, P. Zhang, H. Zhang and X.Y. Zhang</td>
<td></td>
</tr>
<tr>
<td>Multi-Modality Video Scene Segmentation Algorithm with Shot Force Competition</td>
<td>514</td>
</tr>
<tr>
<td>Y.Z. Xiang</td>
<td></td>
</tr>
<tr>
<td>Remote Management Software Design for Urban Road Traffic Equipment Based on Android Mobile</td>
<td>518</td>
</tr>
<tr>
<td>Terminal</td>
<td></td>
</tr>
<tr>
<td>J.J. Zhang, J. Zhang, B.X. Liu and J.M. Li</td>
<td></td>
</tr>
<tr>
<td>Detecting DDoS Attacks Using Conditional Random Fields</td>
<td>522</td>
</tr>
<tr>
<td>Y. Liu, S.Y. Jiang and X.J. Yuan</td>
<td></td>
</tr>
<tr>
<td>Research on the Digital City Geospatial Framework Construction</td>
<td>527</td>
</tr>
<tr>
<td>R. Liu, Y. Liu and Z. Huang</td>
<td></td>
</tr>
<tr>
<td>The Research on Network Communication Complex System Based on Logistic Equation</td>
<td>530</td>
</tr>
<tr>
<td>L.Y. Ren and X.L. Deng</td>
<td></td>
</tr>
<tr>
<td>Analysis of River Regime Data Based on the Improved Apriori Algorithm</td>
<td>535</td>
</tr>
<tr>
<td>BU-Router: Researching on Techniques of Global Router</td>
<td>539</td>
</tr>
<tr>
<td>C.Y. Zhang, J.F. Li and Q. Xu</td>
<td></td>
</tr>
<tr>
<td>Research and Application on Reports Function of Protection Equipment Management Information</td>
<td>545</td>
</tr>
<tr>
<td>System</td>
<td></td>
</tr>
<tr>
<td>C.L. Wu, S. Hua and S.D. Wang</td>
<td></td>
</tr>
<tr>
<td>The Application of Data Encryption in Network Security</td>
<td>549</td>
</tr>
<tr>
<td>C.M. Liu and Y.J. Sun</td>
<td></td>
</tr>
<tr>
<td>The Design of Public Key Cryptography for Key Exchange Base on Multivariate Equations</td>
<td>552</td>
</tr>
<tr>
<td>C.M. Liu, L. Zhao and Y.J. Sun</td>
<td></td>
</tr>
<tr>
<td>Iris Feature Extraction Algorithm Valuation Based on the Fuzzy Clustering Evaluation Model</td>
<td>555</td>
</tr>
<tr>
<td>J. Liu, C.M. Liu and L. Zhao</td>
<td></td>
</tr>
<tr>
<td>A Two-Step Iris Recognition Algorithm</td>
<td>559</td>
</tr>
<tr>
<td>J. Liu, C.M. Liu and T.T. Liu</td>
<td></td>
</tr>
<tr>
<td>The Application Research of Cloud Computing in the Library</td>
<td>563</td>
</tr>
<tr>
<td>Z.R. Wu</td>
<td></td>
</tr>
<tr>
<td>Research on the Domination-Stability of Network G²</td>
<td>566</td>
</tr>
<tr>
<td>J.X. Cao, Z.T. Jiang and F. Xin</td>
<td></td>
</tr>
<tr>
<td>Fusion Algorithm of Infrared and TV Image Based on Image Quality Evaluation Method</td>
<td>570</td>
</tr>
<tr>
<td>B. Zhou and X.H. Luo</td>
<td></td>
</tr>
<tr>
<td>Research on Multi-Attribute Sequence Query Processing Techniques over Data Streams</td>
<td>575</td>
</tr>
<tr>
<td>E.C.H. Lin</td>
<td></td>
</tr>
<tr>
<td>A DDoS Detection Approach Based on CNN in Cloud Computing</td>
<td>579</td>
</tr>
<tr>
<td>Z.X. Yang, X.L. Qin, W.R. Li and Y.J. Yang</td>
<td></td>
</tr>
<tr>
<td>Initial Alignment Algorithm Study Based on Rotating Modulation and Kalman Filtering</td>
<td>585</td>
</tr>
<tr>
<td>Z.W. Zhang and H.D. Sun</td>
<td></td>
</tr>
<tr>
<td>The Research for Building Campus Cloud Services Platform which is Based on Virtualization</td>
<td>589</td>
</tr>
<tr>
<td>Technology</td>
<td></td>
</tr>
<tr>
<td>X.H. Liu</td>
<td></td>
</tr>
<tr>
<td>Utilizing CodedUI Script to Realize the CT Scanning Procedure Automatically Test</td>
<td>593</td>
</tr>
<tr>
<td>J. Yang, X. Meng, X.L. Zhang and T. Xia</td>
<td></td>
</tr>
<tr>
<td>ASP.NET Websites Longitudinal Security Theoretical System</td>
<td>597</td>
</tr>
<tr>
<td>C. Wang, Z.G. Huang, H.M. Liu, J. Gou and L.X. Zheng</td>
<td></td>
</tr>
<tr>
<td>A Trustworthy Software Designing Approach and Credibility Evaluation</td>
<td>602</td>
</tr>
<tr>
<td>J.X. Zhu</td>
<td></td>
</tr>
<tr>
<td>A WSN Routing and Sleeping Algorithm in Agriculture Intermittent Data Collection</td>
<td>606</td>
</tr>
<tr>
<td>F. Huang, C.J. Zhao, F.F. Li and H.R. Wu</td>
<td></td>
</tr>
<tr>
<td>An Initial Study for PET Imaging Simulation</td>
<td>612</td>
</tr>
<tr>
<td>Y.S. Hu, J. Zhang, R. Cui, Y. Xiang, L. Ma, S.L. Yi, D.G. Shao and J.F. He</td>
<td></td>
</tr>
<tr>
<td>A Research of Information Management System Based on Data Mining</td>
<td>616</td>
</tr>
<tr>
<td>J.K. Wang, X.Z. Hu, X.Z. Li and F.J. Ding</td>
<td></td>
</tr>
<tr>
<td>A Research of the Application of the RFID in the Library Management</td>
<td>620</td>
</tr>
<tr>
<td>J.K. Wang, X.Z. Hu, X.Z. Li and F.J. Ding</td>
<td></td>
</tr>
</tbody>
</table>
Algorithm for Automatic Deciphering of Mono-Alphabetical Substituted Cipher Realized in MS Excel Spreadsheet
S. Hubalovsky and M. Musilek 624

The Security Analysis of WLAN Protocol Based on 802.11i
W.Y. Xia, K.J. Wu and L. Zhou 628

Hadoop-Based Model of Mass Data Storage
Y. Li 632

Exploration of the Risk Management Information System for the Large-Scale Game Design
X.J. Zhu and R. Shen 635

Electronic Commerce Personalized Recommendation Model under Cloud Computing Environment
S.J. Gong and J.B. Xu 639

Electronic Commerce Recommendation Mechanism Based on QoS and Bayesian Model
P. Su 643

Research on the Project Studio System of Computer Multimedia
D.J. Zhang 647

An Improved Apriori Algorithm Based on LinkedList for the Prevention of Clinic Pharmaceutical Conflict
L.R. Tong, J. Zhang, L. Ma, L. Xin, S. Hu and J.F. He 651

Research on Uighur Web Pages Classification
G.X. Xu 657

Research on the Data Model and the Approaches to Data Mining in the Semi-Structured Data
F.H. Liu 663

Research on Utilization of Library Website Digital Resources Based on Web
H.C. Xu, J.W. Fu and H.J. Luo 667

The Elderly Outdoor Sports Monitoring System Based on the Beidou Satellite Navigation System
Y.F. He, J.J. Li, Q. He and Z.J. Li 671

Research on the Network Congestion Control Based on GA-PSO Path Optimization
J.X. Ren and H.Y. Guo 675

A New Theory of Infinite Series and its Applications in Training Weight Function Neural Networks
D.Y. Zhang 679

Chinese Word Segmentation Based on the First Kind of Spline Weight Function Neural Networks
D.Y. Zhang and Y. Xu 683

Implementation of Mail Classification Using Neural Networks of the Second Type Spline Weight Functions
D.Y. Zhang and L. Yang 687

Research of Generalized Ant Colony Algorithm for Logistics and Distribution
D.Y. Zhang and H. Zhao 691

Short-Term Traffic Flow Forecasting of Road Based on Spline Weight Function Neural Networks
D.Y. Zhang and J.H. Zhan 695

Secure Transmission Model Technology Scheme of Massive Train Information

Bi-Level Programming Based Layout Optimization of Water-Land Intermodal Transport Hub
Z.H. Wu 703

High Reliability Wireless Coverage Technology Solution to Rail Transit Train-Ground Communication
X.P. Xia, J. Liu, H.Y. Li, H.H. Dong, Y.F. Gao and M.C. Wu 709

The Dynamic Collection of Detection Data Based on Priority Assignment and Slicing Sequence

The Design of Virtual Training System Based on Virtools
L.N. Sun, H.J. Jia, Y. Zhao, Y. Wang and J. Wen 717
<table>
<thead>
<tr>
<th>Title</th>
<th>Authors</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Extension of VIKOR Method for Multi-Attribute Group Decision Making</td>
<td>C.G. Xu, D.X. Liu and M. Li</td>
<td>721</td>
</tr>
<tr>
<td>with Incomplete Weights</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Extension of VIKOR Method for Multi-Attribute Group Decision Making</td>
<td>C.G. Xu</td>
<td>725</td>
</tr>
<tr>
<td>with Interval-Valued Intuitionistic Fuzzy Assessments and Incomplete</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Weights</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A Novel Prediction Model for WBAN Frequency Nonselective Fading</td>
<td>Y.H. Yang</td>
<td>729</td>
</tr>
<tr>
<td>Channel</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Simulated Annealing Algorithm Improved BP Learning Algorithm</td>
<td>Y.J. Lin and X.J. Chen</td>
<td>734</td>
</tr>
<tr>
<td>BP Neural Network Learning Algorithm and its Software</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Implementation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Usage Control: A Solution to Access Control in a Distributed-</td>
<td>P. Ghann, C.D. Wang and C.H. Zhou</td>
<td>742</td>
</tr>
<tr>
<td>Network-Connected Environment</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Study on Distributed Image Database</td>
<td>P.Z. Gou and Y.Z. Tang</td>
<td>754</td>
</tr>
<tr>
<td>The Algorithm for Data Mining Frequent Patterns over Sliding Window</td>
<td>X.L. Zhao and W. Huang</td>
<td>759</td>
</tr>
<tr>
<td>Implementation of Mechanical Model Dynamic Loading Technology on</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Three Dimension Discrete Element Software</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A Quantitative Network Situation Assessment Method Based on Stochastic</td>
<td>B.Y. Zhang</td>
<td>768</td>
</tr>
<tr>
<td>Model</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A Fine-Grained Access Control Model for Smart Grid</td>
<td>C. Wang, H. Ai, L. Wu and Y. Yang</td>
<td>772</td>
</tr>
<tr>
<td>Tao and J.S. Lu</td>
<td></td>
<td></td>
</tr>
<tr>
<td>The Implementation and Application of Image Adaptive Dictionary</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Algorithm Based on Manifold</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Algorithm of Mining Association Rule Based on Matrix</td>
<td>Z.Z. Lin, S.H. Shu and Y. Ding</td>
<td>786</td>
</tr>
<tr>
<td>Description Mirror Features and Data Structures in an Optical CAD</td>
<td>J.H. Jiang and X.H. Yang</td>
<td>796</td>
</tr>
<tr>
<td>System</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Design a Trellis-Based Receiver to Combat CCI in EDGE Network</td>
<td>T.T.T. Linh and D.H. Bac</td>
<td>800</td>
</tr>
<tr>
<td>A Discrete-Time Queueing Model with Service Upgrade</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Link Quality and MAC-Overhead Aware Predictive Preemptive Multipath</td>
<td>M.A. Cherif, M.K. Feraoun and S.B. Hacene</td>
<td>812</td>
</tr>
<tr>
<td>Routing Protocol for Mobile Ad Hoc Networks</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Google Maps-Based Geospatial Application Framework with Custom Layers</td>
<td>M.T. Titanto and T. Dirghayyu</td>
<td>822</td>
</tr>
<tr>
<td>Management</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Motion Capture as an Extension of Web-Based Simulation</td>
<td>M. Őlvecký and D. Gabriška</td>
<td>827</td>
</tr>
<tr>
<td>Jamming-Aware Randomized Spectrum Sharing in Cognitive Radio</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Communication Networks</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Evolution of the Complicated Innovation Networks with Multi-Agent</td>
<td>F.X. Qiu</td>
<td>841</td>
</tr>
<tr>
<td>Research on Network Congestion Control Based on Quantum Genetic</td>
<td>G. Lei, X. Yin and W. Shi</td>
<td>845</td>
</tr>
<tr>
<td>Algorithm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Title</td>
<td>Authors</td>
<td>Page</td>
</tr>
<tr>
<td>----------------------------------------------------------------------</td>
<td>----------------------------------------------</td>
<td>------</td>
</tr>
<tr>
<td>A Framework for Virtual Assembly Based on AR Environments</td>
<td>K. Gao, H.L. Xu, D.M. Zhang, Z. Ouyang and C.Y. Wei</td>
<td>854</td>
</tr>
<tr>
<td>Wide-Area Backup Protection Algorithm Based on Earth Impedance Comparison Principle</td>
<td>Z.X. Li, Q. Li and T. Zhang</td>
<td>858</td>
</tr>
<tr>
<td>Design of Control System of PMSM Based on STM32</td>
<td>B. Qu and J.J. Liu</td>
<td>863</td>
</tr>
<tr>
<td>Literature Review on Suitability Monitoring of Emerging Technology Transfer for Sustainable Development</td>
<td>X.Z. Feng and M. Li</td>
<td>867</td>
</tr>
<tr>
<td>3G-Based Specialty Vehicles Real-Time Monitoring System</td>
<td>Y.F. Zhuang and Y. Yang</td>
<td>871</td>
</tr>
<tr>
<td>A Diversity-Guided Particle Swarm Optimization Method for Blind Source Separation</td>
<td>S. Wei, D.F. Jiang and Y. Gao</td>
<td>876</td>
</tr>
<tr>
<td>Multiple Access Acquisition Technique Based on CAZAC Sequences in OFDM System</td>
<td>C.J. Huang, Y. Hua, Y.H. Hu and Y. Xiang</td>
<td>881</td>
</tr>
<tr>
<td>Monitoring and Control System Design and Implementation of Emulational Transformer Substation Based on the MCGS</td>
<td>R.S. Li and A.L. Fan</td>
<td>885</td>
</tr>
<tr>
<td>The Design and Implementation of Intelligent High-Speed Disk Storage Protocols</td>
<td>J.X. Shen</td>
<td>889</td>
</tr>
<tr>
<td>Realization of Primitive Trace in TD-LTE RF Conformance Testing Instrument</td>
<td>L.Q. Guo and X.W. Li</td>
<td>893</td>
</tr>
<tr>
<td>The RRM Conformance Test of Measurement Process in TD-LTE System Based on TTCN-3</td>
<td>F.T. Chen, Q. Miao and N.N. Han</td>
<td>897</td>
</tr>
<tr>
<td>Design of TD-LTE PHY and MAC Layer in the Interactive System Primitives</td>
<td>H.H. Wang, C.B. Duan and S.Y. Guo</td>
<td>901</td>
</tr>
<tr>
<td>The Development of RRM Conformance Test in TD-LTE Idle_State</td>
<td>Y. Liu and N. Zhang</td>
<td>905</td>
</tr>
<tr>
<td>Building Complex Network Similar to Facebook</td>
<td>D.W. Guo, X.Y. Meng and C.F. Hou</td>
<td>909</td>
</tr>
<tr>
<td>Performance Analysis of One AP with 802.11g WLAN Network</td>
<td>M.M. Li and W.H. Yang</td>
<td>914</td>
</tr>
<tr>
<td>Large Capacity Cache Design Based on Emerging Non-Volatile Memory</td>
<td>K. Bu, H.J. Liu, H. Xu and Z.L. Sun</td>
<td>918</td>
</tr>
<tr>
<td>New Delay-Dependent Stability Criteria for Recurrent Neural Networks with Time-Varying Delays</td>
<td>Z.R. Ren and X.J. Xie</td>
<td>922</td>
</tr>
<tr>
<td>Extending Linear Temporal Logic with Clocks to Object-Z</td>
<td>Z.C. Wen and Z.G. Chen</td>
<td>927</td>
</tr>
<tr>
<td>On the Potential of Web Services in Network Management</td>
<td>Y. Bai</td>
<td>931</td>
</tr>
<tr>
<td>The Observer Pattern Research Based on rCOS</td>
<td>Y. Xiang, J. Yang, H. Zhu and D.X. Dong</td>
<td>936</td>
</tr>
<tr>
<td>Cap Detection Algorithm Based on Pixel Measurement</td>
<td>W.G. Zhang, C. Zhang and L.F. Li</td>
<td>947</td>
</tr>
<tr>
<td>Application of Multi-Computer Communication among Single-Chip Microcomputers on Distributed Data Acquisition</td>
<td>C. Zhang, J. Zhao and Q. Wei</td>
<td>951</td>
</tr>
<tr>
<td>Design of Tunnel Personnel Positioning System Based on Android</td>
<td>H. Li, H. Lai and L.L. Cui</td>
<td>956</td>
</tr>
</tbody>
</table>
Research and Development of Mobile Termination for the Steel Quality Evaluation System Based on Android
Q. Cao, H. Lai, W.Q. Ge and M.J. Qi 960

Attribute Clustering Based Collaborative Filtering
L.M. Zhang, J.F. Ma, D. Lu and Y.C. Wang 965

Game Optimization for RSA Signature Scheme
Y.C. Wang, J.F. Ma, D. Lu and L.M. Zhang 969

A Heuristic Attribute Reduction Based on Multi-Granularity Rough Set
Z.L. Pei, J.H. Qi, L.S. Liu, Q.H. Wang, M.Y. Jiang and X. Wang 973

An Improved KNN Classification Method Based on Variable Precision Rough Set
X. Wang, L.S. Liu, Q.H. Wang, J.H. Qi, M.Y. Jiang and Z.L. Pei 978

The Research of the Web Service Test Model
X.D. Ding, J. Yang, Y. Xiang and H. Zhu 983

Automatic Manufacturing Cloud Service Composition Based on AI Plan
P.S. Zhong, S.Q. Zhu, D.J. Huang and H.L. Xin 990

Research of Multiple Constrained Qos Routing Based on Improved Ant Colony Algorithm
Y. Gong and J.N. Wang 994

Multiple-Replica Public Auditing Protocol for Cloud Storage
H.W. Liu, S.L. Wang and P. Zhang 999

An Improved Watermarking-Based Algorithm of Tamper Detection for Low-Cost EPC C1G2 RFID Tags
X.M. Yao, H.Y. Chen, H.L. Li and X.Y. Zhou 1005

Development of Virtual Prototype Template File Generator
R.Z. Cai and C. Chen 1009

Wireless Data Acquisition System Based on ZigBee and FPGA Technology
T. Wang and W.B. Liu 1013

Approximate Chinese String Matching Techniques Based on Pinyin Input Method
B. Liu, D. Han and S. Zhang 1017

Fast Matching of Astronomical Data within Data Warehouse Architecture
H.L. Zhang, W. Chen and J. Nie 1021

Optimizing Online Assignment of Harvesting Jobs to Trans-Regional Combines
L. Sun and Z.S. Zhu 1026

Design and Implementation Based the SOPC of the 2D-FFT Processor
C. Chen, Q. Huang, Y.Y. Yu, W.L. Li and J. Yang 1030

Dual-Core FFT Processor Based on a High-Speed Real-Time Floating-Point Butterfly Processing Element
J. Yang, Y.Y. Yu, Q. Huang and W.L. Li 1034

Design and Implementation of Personnel Location System Based on Android
X.J. Xu, L. Yue and C. Du 1038

Research on the Maintenance Information System Design of Typical Small Arms
Z.W. Dong, B.L. Wang, C. Mei and P.P. Zhang 1042

Flex: A Flexible Block-Level Distributed Storage System
Y.C. Li, Y.X. Peng and H.B. Li 1046

Anti-Noise Car License Plate Location Algorithm Based on Mathematical Morphology Edge Detection
W.B. Liu and T. Wang 1052

Implementation of the Fast Median Filtering Algorithm Based on FPGA
J.L. Li, S.H. Cui and K.N. Guo 1055

A Workflow Management System for College Laboratory Construction Project Based on MyApps
W.H. Wang, M.Z. Peng, Y.R. Zhao and Z.L. Fang 1059

Research and Simulation for Frequency Offset Estimation Algorithm in TD-LTE System
F.T. Chen and C. Wan 1063

Research on TD-LTE Downlink Packet Scheduling
X.W. Li, X.S. Meng and L. Zeng 1067

Study on Real-Time Traffic Data Modification Method Based on the Improved Etkin Interpolation Algorithm
Q. Gao, Y.L. Gu and T.H. Zhang 1072
Visual Flexible Coding System Design Based on FSM
X.F. Zhang and Y. Cao
1077
Traffic Data Fusion Research Based on Numerical Optimization BP Neural Network
Y.L. Gu, X.C. Wang and J.X. Xu
1081
A Novel Point-Based Incremental Pruning Algorithm for POMDP
B. Wu, H.Y. Zheng and Y.P. Feng
1088
A Model-Based Factored Bayesian Reinforcement Learning Approach
B. Wu, Y.P. Feng and H.Y. Zheng
1092
Chaotic Time Series Prediction for Tent Mapping Based on BP Neural Network Optimized Glowworm Swarm Optimization
Y. Hou and H.Y. Li
1096
Laplacian Transductive Optimal Design for Face Classification
R.R. Zhang, Y.H. Li and J.Q. Wang
1101
Research on Dependable Level in Network Computing System
Y.X. Li, G.X. Xu and S.Y. Liu
1105
The Confidence Level Recognition of Network Computing System Based on Cloud Model
J. Lei and W. Zhang
1109
Hot Topic Detection in News Blog
X.Y. Wang
1114
An Approach to Parse and Match Vehicle Diagnostic Information Based on XML
Z.Y. Huang, B.X. Chen and X.F. Sun
1119
The Research and Design of the RFID Track and Trace System Based on Web Services
K. Bai, H.B. Wang and M. Li
1123
Research on Wireless Sensor Network Routing Protocol Based on Internet of Things
Y. Liu and Z. Xu
1127
Conceptual Design of Mobile Data Collection System for Traceability in Agriculture
H.M. Gao and Y.C. Liu
1131
Online Virtual Exhibition Hall Design Based on Augmented Reality
K. Jiang and S.H. Zhu
1135
Research on CAI Application Based on Information Technology
H. Li
1139
Application of a Novel Data Mining Method Based on Wavelet Analysis and Chaotic Neural Network on Satellite Clock Bias Prediction
Y. Hu and D.P. Tang
1144
The Embedded Display for Temperature Fields Reconstruction Based on Win CE
X. Wan, J.K. Zhao and H.M. Zhang
1150
Hierarchical Data Fusion in WSN Based on Mobile Agent
S. Zhang, H.L. Yang and H.J. Xiong
1154
Evaluation of Two Mixed-Criticality Scheduling Algorithm for Periodic Tasks
S.J. Huang and Y.A. Zhu
1160
Parameter Identification Method Research Based on the BP Neural Network and Space Search
Q. Li and Z.Y. Xu
1165
Bit Swap Established on EOC for VDSL
C.E. Liu and P. Li
1170
The Improvement of DSR Protocol Based on Adaptive Sleep for Low Power Consumption Using in WBAN
M. He, X.M. Zhang and Y.H. Wang
1176
A Service Discovery Algorithm Based on Network Topology Management
X.Y. Han and X.M. Li
1182
Research of WLAN Adaptive Modulation Technology Based on OFDM Subcarrier Amplitude Frequency Characteristics
Z.Y. Sun, X.F. Sun and X. Ling
1187
Intelligent Quality Control System Based on Machine Vision of Multi-Line
J.B. Qu and S.J. Wang
1192
A Junk SMS Filtering Application Based on Bayes Algorithm
F.F. Jing and M. Cai
1197
The Study of Feature Extraction of Handwritten Digits Based on Euler Algorithm
M.L. Hao, Q.C. Tian and X. Bai 1202

A Model Transformation Approache of Complex Systems - Case Study in Design Evolutoins of Data Centers
M. Wiboonrat 1208

A Class of Collocating Problem in Production and its Optimization Models
D.L. Tan, H.X. Chen and Z.J. Cui 1215

Implicit Encryption of Timing Packet with Statistical Side Channel Coding
B.T. Zhu, X.X. Liu, J.S.H. Huang and Z.J. Chen 1221

Maximum Likelihood Based Joint Angle-Frequency Estimation Using QPSO Algorithm
Z.C. Zhang, X.H. Yu and Y.W. Shi 1227

Protecting Location Privacy against Traffic Analysis in Wireless Sensor Networks with LEACH Routing Protocol
Y.M. Wang, X.X. Cui and X.H. Fan 1233

Ontology-Based Methodology for Information Integration and Service Discovery
X.H. Fan, L.F. Duan, Y.M. Wang and D.M. Chen 1241

The Wireless TCP Disconnection Management
Y.J. Liu, M. Cai and K. Chen 1246

Well Group Connectivity Relations Discriminate Based on CART Algorithm
J.S. Liang, W. Zheng and Z.B. Yuan 1252

An Intelligent Manufacturing System Based on WSN and RFID in Industrial Plants
Z.W. Cui, Y. Zhao and H. Yuan 1256

A Target Tracking Algorithm Based on Internet of Things Spatial Meshing
J.H. He, X.M. Zhang and Y.H. Wang 1261

Update Checker: Increasing Virtual Machine Security in Cloud Environments
R. Raghavendran and B. Ragupathi 1268

Research on Interlinkage Mechanism of Net-Manufacturing in Eco-Industrial System (EIS)
Z.D. Xiao and G.H. Zhou 1274

Document Similarity Measure Based on Topic Model
M. He, Z.Z. Wang and Y.P. Du 1280

The Application and Research of C4.5 Algorithm
H.Y. Zhao 1285

Improvement and Security Analysis on Symmetric Key Authentication Protocol Needham-Schroeder
S.M. Liu, J.Y. Ye and Y.L. Wang 1289

Design and Establishment of Information Exchange Standard on Campus
S.S. Shen and A.X. Ding 1294

Research and Implementation of Interceptor Based General Physical Pagination Component of Mybatis
N.X. Peng and Y.Q. Chen 1299

The Analysis and Improvement of the Certified E-Mail Protocol
J.Y. Ye and Y.L. Wang 1305

Establish a Dynamic Business Driven Integrative Information Security Architecture
C.L. Tang 1309

Design and Implementation of Next-Generation Data Center Infrastructure
F. Fang and X.F. Yu 1316

The Analysis of Electronic Commerce Project Risk Based on the Map Reduce Algorithm
Y.Y. Wu and Y.Y. Xiong 1320

An Improved Tendentious Algorithm of Lexical Semantic
Y.B. Yang, Y.Y. Wu, Z.P. Li and L.G. Wang 1326

Cloud Computing Resource Schedule Strategy Based on PSO Algorithm
Y.Y. Xiong and Y.Y. Wu 1332

Study on the Equipment Acquisition Information System Architecture
Y.M. Wu, K. Guo and P.W. Xu 1337

Equipment Acquisition Data Information Integrated Management
Y.M. Wu, K. Guo and Q.L. Wang 1342

Modeling and Analysis of Complex System with UML: A Case Study
M. Yusufu, H.J. Zhang, G. Yusufu, Z.D. Liu, P. Cheng and D. Dilisati 1346
<table>
<thead>
<tr>
<th>Title</th>
<th>Authors</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Application of Data Mining on Stock Market</td>
<td>X.G. Duan and F. Gao</td>
<td>1352</td>
</tr>
<tr>
<td>Solving the Authentication Problem for Real-Time Data Streams</td>
<td>F.N. Wang, S.S. Wang, W.F. Che, Y. Bai and C. Niu</td>
<td>1356</td>
</tr>
<tr>
<td>Research and Realization of Online-Shopping Customer Segmentation Based on RFM Model</td>
<td>L. Zhang and Y. Wang</td>
<td>1361</td>
</tr>
<tr>
<td>A New Method of Battlefield Situation Collaborative Plotting Based on Ontology</td>
<td>W.F. Shan, J.W. Zhou, H.J. Dai and P. Wang</td>
<td>1365</td>
</tr>
<tr>
<td>Research and Practice on the Reporting System of Call Center Base on SOA</td>
<td>F.M. Qin and Q. Yang</td>
<td>1372</td>
</tr>
<tr>
<td>Semantic Web Service Composition Standards and their Applications</td>
<td>M. Beraka, H. Mathkour and S. Gannouni</td>
<td>1376</td>
</tr>
<tr>
<td>A Research on the Web Services Composition Model and its Transformation Based on MDA</td>
<td>P. Gu, M. Chai and J.M. Zeng</td>
<td>1382</td>
</tr>
<tr>
<td>Face Recognition Based on Maximum Spanning Tree Kernel and Gray Kernel</td>
<td>Q.R. Jiang and Z. Wu</td>
<td>1387</td>
</tr>
<tr>
<td>An Application of T-S Model and Phase Based Quantum Genetic Algorithm in Oilfield</td>
<td>S.X. Liu, Y. Yang, D.B. Mu and P.C. Li</td>
<td>1392</td>
</tr>
<tr>
<td>Research of IHE-ITI-PIX Architecture Based on SOA System</td>
<td>Y. Sun, W. Gao and Y. Ye</td>
<td>1398</td>
</tr>
<tr>
<td>Fast Chain Coding of Connected-Component Boundaries</td>
<td>Y. Liu and Y.G. Chen</td>
<td>1402</td>
</tr>
<tr>
<td>A Novel and Robust Algorithm for License Plate Location Using Perceptual Salient Features</td>
<td>Y. Wang, G.Y. Wang, R. Wang, Y.C. Xia and Z. Chen</td>
<td>1414</td>
</tr>
<tr>
<td>Application on Selecting Simultaneous Factor of City Community Based on Data Mining</td>
<td>W. Ji, Q. Xie, H.W. Zhang, W.T. Hu and F.C. Lü</td>
<td>1421</td>
</tr>
<tr>
<td>A Study on Cloud Service with Information Resources</td>
<td>X.Z. Feng and P. Hao</td>
<td>1425</td>
</tr>
<tr>
<td>Performance Analysis of Web Services in Different Types of Internet Technologies</td>
<td>S. Hussain, Z.S. Wang and I.K. Toure</td>
<td>1431</td>
</tr>
<tr>
<td>Integrated of Berth Schedule and Quay Crane Allocation in Container Terminal</td>
<td>J.F. Qian, X.N. Zhu and Y.J. Liu</td>
<td>1437</td>
</tr>
<tr>
<td>A Robustness Watermarking Achievement Algorithm with Block Compressed Sensing Theory</td>
<td>H.M. Zhao and X.L. Chen</td>
<td>1445</td>
</tr>
<tr>
<td>Virtual Elevator Simulation System Based on Network Shared</td>
<td>W. Xu, X.L. Zhang and C.F. Lv</td>
<td>1453</td>
</tr>
<tr>
<td>Analysis of Hexagonal Network Based on Cellular Automation</td>
<td>J.Z. Gong, G.L. Chen, H. He and J.H. Li</td>
<td>1457</td>
</tr>
<tr>
<td>The Data Allocation Strategy Based on Load in NoSQL Database</td>
<td>Z.K. Chen, S.Q. Yang, S. Tan, H. Zhao, L. He, G. Zhang and H.Y. Yang</td>
<td>1464</td>
</tr>
<tr>
<td>Development and Implementation of a New Kind of SPWM Sampling Method</td>
<td>J.P. Zhao and H.B. Yu</td>
<td>1470</td>
</tr>
<tr>
<td>Research and Design of Multi-Source Heterogeneous Information Integration Platform for Metadata Service</td>
<td>X.M. Guo, L.L. Ma, K. Su and Y.F. Sun</td>
<td>1485</td>
</tr>
<tr>
<td>Application Research of Wireless Communication Technology in Remote Meter Reading System</td>
<td>Z. Hong, J.J. Wang and A.S. Ma</td>
<td>1494</td>
</tr>
</tbody>
</table>
Design of Image Data Cache System Based on Nios II/s Soft-Core Processor
Y.J. Li, R. Li and L. Yan

Contrasting Active Networks and B-Trees Using Carl
J. Zhu and S. Zhang

A XML Pattern Match Algorithm of Structural Index
S.L. Li and J. Zhu

Mechanical Arm Active Disturbance Rejection Control Based on Artificial Bee Colony Algorithm
X.L. Liu and L.P. Xiong

LOLAP: A Lightweight OLAP Model
L. Yan, Y.B. Zhu, Y.F. Li and B. Yang

The Design of Modern Agriculture Control System Based on Internet of Things
B.P. Wang

No-Wait Flow Shop Scheduling Based on Discrete Harmony Search Algorithm
Q.Q. Sun and B. Dong

Information Extraction of High-Resolution Remotely Sensed Imagery Based on Object-Oriented Method

Research on Information Description Mechanisms for Equipment Maintenance Support Resource Based on Metadata
X.M. Guo, L.L. Ma, K. Su and Y.F. Sun

Design of Contents Recommendation Model Based on Gray System Theory
L.H. Zhang and Y.W. Zhang

Research on User Clustering of Recommended System Based on Fuzzy Clustering
L.H. Zhang and W. Liu

A Comparison of NARX and BP Neural Network in Short-Term Building Cooling Load Prediction
Y.L. Xu, H.X. Chen, W. Guo and Q.Y. Zhu

Fuzzy Based Distance Correction Algorithm for Digital Image Interpolation
Y. Xu, J.T. Dong and Z.Q. Wang

Real-Time Variance Calculation Method for Synchronous System Clock Based on Adaptive Exponential Smoothing
Y. Xu, Z.Q. Wang and Q. Yang

Using Multi-Scale Gaussian Derivatives for Appearance-Based Recognition
Y. Zhang, C.C. Liu and J. Zou

Speech Recognition Based on Weight Function Neural Networks
D.Y. Zhang and R. Zhao

Frequency Control of the Building Automation System in Rail Transit Stations Based on Multi-Objective Optimal Algorithm
Z.J. Shi, B. Xu and B.G. Zheng

Accelerating Network Coding on Graphics Processors
X.H. Pan

Study on Heterogeneous Cellular Network Frequency Resource Allocation Method Based on ASID
L. Liu

An Accident Prediction and Diagnosis Method Based on Bayesian Network
L. Shi and Z.G. Li

Design and Implementation of Router Configuration Software in the Information System
J.X. Liu, W. Zhang, Q.Z. Zhou, X.F. Lou and X. Fei

Face Detection Based on Skin Color and AdaBoost Algorithm
Y. Wang, X.J. Ban, X. Yang and Y.F. Guo

Compressed Sensing Based Neural Signal Processing and Performance Analysis
Y.X. Zhang, W.G. Fan and J.P. Sun

Joint Spatio-Frequency Resource Management for Cognitive MIMO Systems
Y.F. Xu and L.H. Li

Research on the Integration Model of Process Planning and Job-Shop Scheduling
Y.Q. Xiao, L. Wang and Q. Li
<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resource Sharing under Cloud Computing Framework</td>
<td>1609</td>
</tr>
<tr>
<td>Research on Urban Security Based on the Digital Urban Management</td>
<td>1613</td>
</tr>
<tr>
<td>Construction Method of Constraint Matrices Corresponded by an Optimal Solution</td>
<td>1617</td>
</tr>
<tr>
<td>Design Model Research of Software Testing Case Based on Requirement Characteristics</td>
<td>1621</td>
</tr>
<tr>
<td>Application of Paralleling Genetic Algorithms in the Reliability Optimization Questions of the Same Category Computer Networks</td>
<td>1625</td>
</tr>
<tr>
<td>Huangbai Quality Assessment Based on Information Reduction and Defuzzification Weibull Distribution</td>
<td>1629</td>
</tr>
<tr>
<td>Houpo Quality Assessment Based on Data Mining and Defuzzification Gamma Distribution</td>
<td>1633</td>
</tr>
<tr>
<td>Functional Orientation and Structure of the Higher Education Management Information System</td>
<td>1637</td>
</tr>
<tr>
<td>Research on Practical Issues of Informationize of University on Evaluating System Mode</td>
<td>1641</td>
</tr>
<tr>
<td>Research on the Evaluation Mechanism Construct Strategy of Investing Benefit for Higher Informationized Education</td>
<td>1645</td>
</tr>
<tr>
<td>The Analytical Study of Large Shopping Website Interface Layout Rationality Based on Eye Tracker</td>
<td>1649</td>
</tr>
<tr>
<td>A Network Anti-Interference Method Based on Multi-State Hidden Layers' Distribution with Iterations</td>
<td>1660</td>
</tr>
<tr>
<td>A Research on Development of Topic Service Website Based on Drupal and Shortest Path Optimization Protocol</td>
<td>1664</td>
</tr>
<tr>
<td>Analysis on the Adaptive Selection Process of MAS-Based Data Mining Model</td>
<td>1668</td>
</tr>
<tr>
<td>On the Influences of Information Transmission Mode Changes upon the Organizational Structure</td>
<td>1672</td>
</tr>
<tr>
<td>Security Analysis and the Improvement of Multi-Proxy Multi-Signature Scheme</td>
<td>1676</td>
</tr>
<tr>
<td>A Bayesian Assessment Method of Network Risk</td>
<td>1680</td>
</tr>
<tr>
<td>Strategy for Test Paper Composition Based on Genetic Algorithm</td>
<td>1684</td>
</tr>
<tr>
<td>Digital TV Program Recommendation System Based on Latent Factor Model</td>
<td>1688</td>
</tr>
<tr>
<td>The Analysis and Design of WTN Chess Algorithm</td>
<td>1692</td>
</tr>
<tr>
<td>Analysis of Buffer Overflow Exploits and Prevention Strategies</td>
<td>1696</td>
</tr>
<tr>
<td>A High-Performance Wireless Mesh Network Routing Protocol</td>
<td>1701</td>
</tr>
<tr>
<td>Analysis of Buffer Overflow Exploits and Prevention Strategies</td>
<td>1705</td>
</tr>
</tbody>
</table>
F.A. Siddiqui, Q.L. Liu and M. Hashim

IMMRPF Class-Conditioned Joint Tracking and Classification
L. Xu, H. Jiang and K. Zhan

About the Studying on the Uncertainty of Ontology on the Bayesian Network
R.H. Cong

Principal Component Pursuit with Weighted Nuclear Norm
Q.S. You and Q. Wan

Pseudorandom Bit Generator Based on Varying Time-Delayed Logistic Map
L.F. Liu, S.X. Miao, H.P. Hu and Y.S. Deng

Cloud Computing-Oriented Virtual Machine Live Migration Mechanism
Y.Q. Fang, Z.C. Song and J.W. Ge

DSP Realization of De-Turbo Code Rate Matching in LTE System
H.H. Wang, Y.Y. Zhou and X.W. Li

Logistics Distribution Routing Optimization Algorithm
Z.C. Hua, H. Xin and Z. Wei

Research on the Application of Cellular Algorithm in 3D Modeling of Cartoon Characters
F. Liu

Online Room-Booking System Based on Database
P. Teng

Research and Implementation of the Secure Database-Update Mechanism
C. Liu and K. Tan

LabVIEW-Based Design of Virtual Instruments and R&G of Virtual Experimental System
Y.N. Wang

Study on Finding Experts in Community Question-Answering System
R.R. Yang and J.H. Wu

Application of Cloud Counting in Product Platform Design Services Research
D.D. He, F. Qin and C. Wang

Research on Service Update Dynamically Based on OSGi Frame
L. Zhou, N.Y. Cao, L. Li, L.X. Ke and K.J. Wu

Hybrid Particle Swarm Optimization Algorithm for Large-Scale Travelling Salesman Problem
J.W. Zhang

Decision Diagram-Based Modeling of Network Reachability
Z.C. Rao and T.Y. Pu

The Application of the Fuzzy ART Neural Network Algorithm
M. Gu

Ant Colony Algorithm Dynamically Adjust the Parameters Based on Chaos Theory
T. Gui, X.L. Fu, G.F. Dong, X.Y. Sun and L.M. Bao

Study on Partition Testing Based on Software Models
J. Li and T.T. Xie

Research on P2P Transmission Optimizing Strategy
J. Yi, X.D. Li, X.F. Li and H.L. Gou

Research and Design of Digital down Converter Based on Software Defined Radio
W.B. Wang, D.Y. Liu and Y.Q. Yao

Network Utility Maximization with Random Link Failures
S.B. Liao and C.T. Zhu

Survey on Cooperation Incentive Mechanisms in MANETs
X.F. Wang, Y. Cai and Z. Li

Research on BP Neural Network Optimization Based on Ant Colony Algorithm
R. Wang and N. Wang

Research on Vehicle Path Planning Base on Intelligent Transport System
R. Wang and N. Wang

Research on the Storage Technology of Tape-Type Logging Based on VxWorks
J.C. Zhang, Z.S. Li and P.F. Wang

The Cloud Computing Tasks Scheduling Algorithm Based on Improved K-Means
X.Y. Sun, X.L. Fu, H. Hu and T. Gui
Second Screen Solution Based on Cloud Centric Media Platform
T. Xie and Y.C. Jin 1835

AR-Tri-Training: Tri-Training with Assistant Strategy
L.J. Cui, H.L. Wang and R.Y. Cui 1840

A Wireless Sensor Network Routing Algorithm Based on Zigbee
H.R. Wu and L. Zhu 1845

The Practical Analysis of Software Quality Management of Information System
H. Wang, X.Y. Li, H.T. Yang, Y.J. Zhang and W.N. Liu 1850

The Research on the Software Requirement Development of Information System

Labelling Edges of Models from Complex Networks
B. Yao, M. Yao, S.H. Yang, X.E. Chen and X.M. Zhang 1858

The Application of IIC BUS in Data Communication Based on S3C2410A
D. Wu and Q. Li 1863

Balanced Preemptive Selection Course System Using COM+ Cache Service Strategy
J.H. Zeng, X.H. Liu and X.P. Liang 1867

Research on Logistics Distribution Path Planning Algorithm Based on GIS
T.Y. Su and D.S. Xue 1871

IT New Technology Contribute to Reduce Costs and Improve Efficiency for Enterprise
K. Liu and P.F. Zheng 1875

A Collaborative Filtering Recommendation Algorithm Combined with User and Item
F.M. Liu, H.X. Li and P. Dong 1878

Analysis of Trust Issues Based on Evolutionary Game in Cloud Computing
F.M. Liu, T.T. Ma and K. Zhou 1882

An Action Recognition Model Based on the Bayesian Networks
W.Q. Chen, G.Q. Xiao and X.Q. Tang 1886

Application of Hierarchical Structured Particle System in Driving Simulation System
L.H. Li, Y. Tang and J. Liu 1890

An Integrated Wireless Communication Platform for Emergency Rescue Management-Decisional Support System
J.S. Ren, P. He, Y. Chen, C. Tan, Z.H. Zheng and Y. Xiang 1894

Geo-Visualization of Agricultural Products Price Data Based on WebGIS
C. Peng, H.R. Wu, X.X. Shi and X.Y. Qin 1899

Research on O-OFDM System Based on Hyper Chaos Scrambling Encryption Algorithm
Y. Feng and L.Q. Huang 1903

Definitions of Tamper-Proof Program
G.J. Ma and G. Li 1907

Development and Design of Agriculture Product Circulating Information System under the Internet of Things
B.G. Zheng and H. Wang 1911

Research and Implementation of the Smart Home System Based on Internet of Things Environment
H. Wang and B.G. Zheng 1915

The Numerical Analysis and Simulation of a Linearized Crank-Nicolson $H^1$-GMFEM for Nonlinear Coupled BBM Equations
M. Zhang, Z.D. Yu, Y. Liu and H. Li 1919

Automatic Mining and Processing Dormancy Data in the Database Management System for Small and Medium Enterprises
J.H. Zeng and Z.X. Xiao 1927

Using Semantic Correlation of HowNet for Short Text Classification

Method of Testing Point Optimizing Based on Multi-Echelon Comparison Hybrid Particle Swarm Algorithm
Z.Q. Wang, Y. Xu and Q. Yang 1935

Research on the Application of Computer Data Mining Technology in the Financial Risk Management
L.H. Yu, Y.L. Xu and L. Dai 1940
The Study of the Requirement of Software Testability Based on Causal Analysis
Y. Liu and Y.C. Wang
1944

A Proxy Signature Based on the Difficulty of Solving Equations of Higher on Quaternion Ring
H. Shao, F. Zhang, X.Z. Yuan and C.D. Qi
1951

Application of Informational Technology in Language Teaching
S.Y. Wang
1955

The Software Quality Fuzzy Comprehensive Evaluation Method Research
X.T. Yuan and H.M. Yang
1959

The Performance Analysis of the S-Box Based on Matrix Power Multiplication
X.Z. Yuan, F. Zhang, H. Shao and C.D. Qi
1963

Research on Account Management System Based on Openldap and SUDO
C. Zhe and L.Z. Xu
1967

Hierarchical Certificate-Based Encryption: Definition and an Efficient Construction
H.L. Xu and Y. Lu
1971

The S3C2440’s Camera Interface Driver Development Based on Embedded Linux
Z. Dong, S.Z. Chen and Z.H. Wei
1975

Research and Simulation of Performance of W-SVD Watermarking Algorithm Based on Color Images
H.X. Fang and Z.C. E
1980

The Architecture Design of Information Dispersed Storage System Based on the RAIC
F. Long and Y.J. Yang
1984

The Research and Improvement of MapReduce Cluster Scheduling Strategy Based on Ant Colony Optimization
Y.P. Zhang, J. Qin and Z. Zhai
1989

Automatic Summarization Based on Mutual Information
H. Huo and X.H. Liu
1994

A Method to Creating Visualization Model with Consistency Rule in Paradigm
B.J. Huang, X.L. Zhao, C. Shan, Z.Q. Li and J.F. Xue
1998

Web GIS Research and Application Based on SVG
P. Wang and L.Y. Dong
2004

The Realization of HARQ Based on UE in the Uplink of LTE System
D. Wang, P. Sun, F.T. Li and L.Y. Zhou
2008

Study on the Music Rhythm Iambs Relationship Modeling Method
T. Yu, S. Guo, L.Y. Li and J.J. Wang
2012

XML Digital Signature Application in Network Test System
X.F. Wang
2016

An Analysis of the University Informatization Construction Based on Information Resource Planning
L. Wang
2020

A New Online New Event Detection Algorithm Based on Event Merging and Event Splitting
Y.N. Li, Y. Tao, J.N. Wang and Y.H. Fu
2024

Virtual Machine Migrating Algorithm Based on Genetic Algorithm in Cloud Data Center
H. Zhang and Y. Liu
2031

Predicting Project Effort Intelligently in early Stages by Applying Genetic Algorithms with Neural Networks
Z.Y. Li
2035

Building a Multi-Agent System for Emergency Logistics Collaborative Decision
L. Zhang, Z. Qi, Q.Z. Wang, X.P. Wang and X. Shen
2041

Research on Fast Community Detection Algorithm in Microblog
J. Tian, H. Guo and Y. Wang
2045

Application of the IOT Technology in the Intelligent Management of University Multimedia Classrooms
G.X. Zhao and B. Qi
2050

Research on Automatic Scoring Methods for Programs Based on Program Understanding
Y.N. Wang and L.N. Xiao
2054

A Framework for Detecting Weighted Communities in the International Trade Network
L.M. Yan and J. Han
2059
Adaptive Transmission Control Based on QoE Measurement of Invalid Data Rate
L.G. Lai, L. Xu and C.S. Cao

Evaluation of Literature Reading Value Based on User Interests Mining
Y.H. Zhao, Z.G. Zhang and R.Y. Cui

Methods in Requirements Elicitation for Application System of Nuclear Power Enterprise
X.H. Wu and S.H. Peng

A Wireless Sensor Networks Monitoring Device Based on ZigBee
H.R. Wu and L. Zhu

Research and Implementation of Event Handling of IT Service
Q. Chen and X.P. Wan

Research and Analysis of IT Customer Service System Structure
Q. Chen and X.M. Xiang

Application of Code Generation Technology in Software Projects
J.C. Tang

A Novel Bit-Flipping LDPC Decoder for Solid-State Data Storage
W.Z. Zhao, K. Zhao, Q.B. Chen, M.J. Lv and Z.X. Hou

Collection and Analysis of Emotional Data in Bulletin Board System Forum of University
S.D. Min and B.J. Zhu

Application of Data Mining Technology in CRM
Y.F. Liu and M.Y. Li

A Research of GIS Software Application Based on Cloud Computing
Z.J. Diao and S. Guo

E-Mail Filtration and Classification Based on Variable Weights of the Bayesian Algorithm
Z.J. Wang, Y. Liu and Z.J. Wang

Migration of Stored Procedure to Distributed Cloud Database
K.N. Duan

Design of Books Analysis System in University Library Based on Data Warehouse
X.M. Luan and H. Jiang

The Key Technology for Mobile Digital Campus
X.M. Luan, Y.L. Wang, H. Jiang and J.F. Shan

Electronic Data Interchange on Logistics System Based on Embedded Linux
H. Tan, X.L. Liu, X.X. Li and G.Q. Zhao

Customer Arrival Event Processing on Computer Simulation for Discrete Event System
M.H. Yao, X.J. Chen and L. Zuo

Functional Structure and Technical Framework on University Scientific Research Management Platform
Y.Q. Yang and Z.Q. Li

An End-User Oriented Visual Programming Language
Y. Jia, B.J. Shen, T.Y. Yu and J.G. Zhu

Single Machine Group Scheduling Problem with Deteriorating Jobs and Release Dates
L. Liu, Y.T. Xu, N. Yin and J.B. Wang

A Note on Flow Shop Scheduling with the Effects of Learning and Deterioration
Y.P. Niu and J.B. Wang

Note on Scheduling with the Exponential Learning and Simple Linear Deterioration
N. Yin and T.C. Sun

An Improved Anycast QoS Routing Algorithm Based on Chaos Genetic Algorithm
R. Shi and H. Zhao

Research on Kernel Information Monitor Based on High-Privilege for Computer System
X.L. Li

Application of Data Mining in Construction of Corruption Risks Prevention System
J.Q. Su and S. Dan

Digital Library and Cloud Computing Technology
D.W. Xu and L.P. Yang

Merging Daily Scene and Project Development into C-Programming
W. Zhang and S.S. Guo

Application Status and Prospect of Computer in Accounting
X. Fan
The Security Strategies of Computer Network for E-Tax System
Y.J. Bai 2182

E-Learning Resource Recommendation Based on Fuzzy Sets
L.H. Ding 2186

The Research on the Campus Network Monitoring System Alarm
W.C. Lv 2190

Construction Plan for Digital Campus Portal
H.X. Hu 2194

Embedded Processors Nios II-Based LCD Display System Design
L.L. Tang, S.J. Yao, W. Huang and J. Wang 2199

Workflow Scheduling Algorithm Based on Reliance Group in Cloud Environments
Y.J. Zhang, B. Liu, C. Li and Y. Li 2203

A Pipelined Parallelism Approach to Parallel Short-Range Molecular Dynamics Simulations on Multi-Core Platforms
Y.L. Liu, W.Y. Chai and X.R. Li 2207

Micro-Blogging Based Network Growth Model of Semantic Link Network
W. Ren and Y.H. Qiu 2211

Hypervolume Performance of Conical Area Evolutionary Algorithm for Bi-Objective Optimization
H.K. Zhao, W.Q. Ying, Y. Wu, Y.H. Xie and L. Wen 2215

A Design of Improved Base64 Encoding Algorithm Based on FPGA
W.L. Li, R.X. Zhu, J. Kang, L. Tao and G.H. Cai 2220

A Data Sharing Model of Minority Multidisciplinary Data Based on WebGIS
Y. Zhang and Y. Weng 2224

A Simulation-Based Performance Study on Concurrent Multi-Path Transmission over Wireless Broad-Band Network
J.J. Jin, L. Cui, X. Cui, W.J. Lee and S.J. Koh 2228

Research on Upgrades in Campus Network Based on IPv6
G.X. Zhao 2232

Interface Design and Development of ETL in the Telecommunications Business Data Warehouse Plat Form
H. Gu and Y.H. Zhao 2236

The Research and Design on the Monitoring Platform Based on the Internet of Things
Z.P. Hua and H.X. Fang 2240

The Current Situation of the Application and Development of Computers
Z. Bai and Z.G. Zhang 2244

The Application of Computer Drawing Technology in Sport Drawing
D.M. Wei and L.X. Yang 2248

The Application of Computer Software Microsoft Office Word in Sports Drawings
J. Zhang and B. Zhang 2253

Research on Energy-Saving Technology of Wireless Sensor Network

Implementation of Laboratory Management System Based on LAMP
Z.M. Zhang 2261

Semantic Feature Modeling Based on Geometric Constraint Solving
X.Y. Gao, C.X. Zhang and X.Y. Yu 2264

F.C. Cheng, F. Miao and W.H. Yang 2268

Research on Access Control Based on CP-ABE Algorithm and Cloud Computing
S.M. Zhang, J. Ran and B.Y. Wang 2273

Secure Message Transmission Method of MMS Telecontrol Communication Based on AES-CCM
B.Y. Wang, X.Y. Jin and S.M. Zhang 2277

Study of an Improved Hadoop Speculative Execution Algorithm
B.Y. Wang, X.Y. Pu and S.M. Zhang 2281
<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Application of an Improved Integration Algorithm of Support Vector Machine to the Prediction of Network Security Situation</td>
<td>2285</td>
</tr>
<tr>
<td>S.M. Zhang, B.X. Li and B.Y. Wang</td>
<td></td>
</tr>
<tr>
<td>Invulnerability Analysis of Large Logistics Supply Chain Network in Complex Environment Based on the Internet of Things</td>
<td>2289</td>
</tr>
<tr>
<td>X.B. Cao</td>
<td></td>
</tr>
<tr>
<td>Simulation on Task Scheduling for Multiprocessors Based on Improved Neural Network</td>
<td>2293</td>
</tr>
<tr>
<td>X.F. Li</td>
<td></td>
</tr>
<tr>
<td>Convergence Proof for Unsteady Classification Model with Data Fluctuations</td>
<td>2297</td>
</tr>
<tr>
<td>P. Wu</td>
<td></td>
</tr>
<tr>
<td>Employing Generalized Bezier Tube to Smoothly Blending Tubes Whose Axes are Non-Coplanar</td>
<td>2301</td>
</tr>
<tr>
<td>G.Z. Bai, H. Wang and Z.J. Yin</td>
<td></td>
</tr>
<tr>
<td>Analysis on Three-Dimensional Virtual Simulation for Rationality of Large-Scale Commercial and Residential Space</td>
<td>2307</td>
</tr>
<tr>
<td>J. Liu</td>
<td></td>
</tr>
<tr>
<td>The Analysis of the Specific Network Content Search Model in Public Policy Formulation</td>
<td>2311</td>
</tr>
<tr>
<td>N. Li</td>
<td></td>
</tr>
<tr>
<td>An Analysis on Effective Classification Method for Massive Data in Cloud Computing Environment</td>
<td>2315</td>
</tr>
<tr>
<td>Q. Wang</td>
<td></td>
</tr>
<tr>
<td>The Research on Robust Detection Method for Mixed Network Architecture in 4G Networks</td>
<td>2320</td>
</tr>
<tr>
<td>H.M. Chen</td>
<td></td>
</tr>
<tr>
<td>Research on Multiple Access Transmission of Multimedia System Data Based on Cellular Communications</td>
<td>2324</td>
</tr>
<tr>
<td>C.L. Li</td>
<td></td>
</tr>
<tr>
<td>Study on Optimization Algorithm of Hub Nodes Based on Digital Guide Technology</td>
<td>2329</td>
</tr>
<tr>
<td>H.J. Lv and Z.K. Han</td>
<td></td>
</tr>
<tr>
<td>Feedback System Design of Architectural Planning Based on Diversified Hot Mining Algorithm</td>
<td>2334</td>
</tr>
<tr>
<td>H.J. Lv and Z.K. Han</td>
<td></td>
</tr>
<tr>
<td>Spatial Vector Data Indexing Network Clustered Mode Based on P2P</td>
<td>2339</td>
</tr>
<tr>
<td>Y.R. Yang</td>
<td></td>
</tr>
<tr>
<td>Study on the Optimization of Complex Computer Network Language Based on TEI Model</td>
<td>2345</td>
</tr>
<tr>
<td>S.Y. Zhang</td>
<td></td>
</tr>
<tr>
<td>Research on the Cloud Computing Storage Privacy Preserving Based on MB-Tree Dynamic Access Model</td>
<td>2350</td>
</tr>
<tr>
<td>L.P. Hao and Y.H. Chen</td>
<td></td>
</tr>
<tr>
<td>Matching and Tracking Technique Based on Time Frequency Dictionary</td>
<td>2355</td>
</tr>
<tr>
<td>R.H. Lu</td>
<td></td>
</tr>
<tr>
<td>Research on Analytical Model of Network Transmission Based on Topological Structure of Logical Layer</td>
<td>2360</td>
</tr>
<tr>
<td>H. Wang</td>
<td></td>
</tr>
<tr>
<td>Algorithm Study on Physical Adaptive Regulation Based on BP Neural Network</td>
<td>2364</td>
</tr>
<tr>
<td>Z.L. Yuan</td>
<td></td>
</tr>
<tr>
<td>Simulation Analysis on Feedback Model of Physical Optimization Based on Artificial Neural Network</td>
<td>2369</td>
</tr>
<tr>
<td>J.K. He</td>
<td></td>
</tr>
<tr>
<td>Improvement and Simulation of Artificial Intelligence Algorithm in Special Movements</td>
<td>2374</td>
</tr>
<tr>
<td>J.H. Li and Y.Y. Zhao</td>
<td></td>
</tr>
<tr>
<td>Research on the Application of Spatial Logic in the Security Protocol Verification of Computer</td>
<td>2379</td>
</tr>
<tr>
<td>M. Gao</td>
<td></td>
</tr>
<tr>
<td>Research on Data Mining Technique Based on Visualization of Parallel Coordinate Method</td>
<td>2384</td>
</tr>
<tr>
<td>D.Y. Zhang</td>
<td></td>
</tr>
<tr>
<td>Simulation Research on Video Tracking Based on Computer Dynamic Capturing Technology</td>
<td>2389</td>
</tr>
<tr>
<td>Z.Y. Hu</td>
<td></td>
</tr>
<tr>
<td>Title</td>
<td>Authors</td>
</tr>
<tr>
<td>----------------------------------------------------------------------</td>
<td>--------------------------------</td>
</tr>
<tr>
<td>The Algorithm Study of Support Vector Machine Based on Social Network of Public Opinions</td>
<td>H.B. Xie and H.J. Qiu</td>
</tr>
<tr>
<td>Task Optimization Scheduling Algorithm in Embedded System Based on Internet of Things</td>
<td>D.H. Wu</td>
</tr>
<tr>
<td>Relay Wireless Network Communication Protocol Technology Based on Balanced Energy and Distance</td>
<td>M.T. Xu</td>
</tr>
<tr>
<td>An Improved Abnormal Behavior Feature Detection Algorithm of Network Information Based on Fractional Fourier Transform</td>
<td>Q.H. Peng</td>
</tr>
<tr>
<td>Chaotic Time Series Prediction Algorithm for Lorenz System</td>
<td>C. Zhang</td>
</tr>
<tr>
<td>The Algorithm of Case-Searching Based on AHP Application</td>
<td>C.X. Wang and N. Liu</td>
</tr>
<tr>
<td>An Enterprise-Wide Digital Archive Management System Infrastructure</td>
<td>W. Dong, Q.D. Ji and L.N. He</td>
</tr>
<tr>
<td>Non-Standard Parts Management Based on Browser \ Server</td>
<td>B. Shen, X.M. Gu, C.D. Yang, J.H. Zhao and R.H. Yuan</td>
</tr>
<tr>
<td>A Simple Opinion Dynamic Model with Group Culture Threshold from Game Theoretic Perspective</td>
<td>W. Li, Y.G. Pan, P. Li and H. Wang</td>
</tr>
<tr>
<td>A Family Particle Swarm Optimization Based on the Animal Collective Behavior</td>
<td>Z.Z. An, J.R. Bai, Y. Ma, N.Y. Jia and X.L. Shi</td>
</tr>
<tr>
<td>Smart Home Application Based on ZigBee Protocol</td>
<td>N. Ding and F.Q. Xu</td>
</tr>
<tr>
<td>Self-Service Library System: Design and Implementation</td>
<td>W. Dong</td>
</tr>
<tr>
<td>Researches on 3D Modeling of Geographic Elements and Integrating with Terrain Model</td>
<td>D.P. Xi, D.C. Duan and W.P. Jiang</td>
</tr>
<tr>
<td>A Network Model of P2P Extending to Private Network</td>
<td>W.H. Wang and M. Zhou</td>
</tr>
<tr>
<td>Research on Building the Cloud Platform Based on Hadoop</td>
<td>Y.Q. Han, Y. Zhang and W.D. Guan</td>
</tr>
<tr>
<td>Research of Cloud Storage Based on Hadoop Distributed File System</td>
<td>Y.Q. Han, Y. Zhang and S. Yu</td>
</tr>
<tr>
<td>JPEG Image Decoding and Display System Design Based on ZedBoard Development Platform</td>
<td>Q. Wu, Y.T. Zhang and J. Wang</td>
</tr>
<tr>
<td>Standard Interchange Protocol 2: Theory, Design and Implementation</td>
<td>W. Dong</td>
</tr>
<tr>
<td>Design and Implementation of Intelligent Baby Room Monitoring System Based on the Internet of Things</td>
<td>F. Guo and J.Y. Duan</td>
</tr>
<tr>
<td>A Study on the Design Method of the Real-Time System Software Based on RTOS</td>
<td>D. Zhao, S.W. Jiang, H.W. Zhao and X.T. Yu</td>
</tr>
<tr>
<td>Design and Development of As-Built Documents Management System Based on BIM</td>
<td>C.M. Cai, J.F. Lu and D.Z. Li</td>
</tr>
<tr>
<td>Mobile Clinical Information System for Hospital Ward Rounds</td>
<td>F. Wu and H. Wang</td>
</tr>
</tbody>
</table>
A New Kind of Security Communication Mechanism with Security Sessions
J.J. Yao

An Empirical Study of Boosting Methods on Severely Imbalanced Data
X.Y. Liu

Application and Improvement of the Network Simulation Platform
Y.H. Yu

LTE-A System Downlink HARQ System-Level Design and Simulation
X.W. Li and X.L. Yu

The Improvement and Verification of Conformance Testing Platform in TD-LTE System
Y. Liu and Y.Q. Niu

The Analysis and Realization of PDCP AM Transmission Mode in LTE System
D.M. Zhang, H.T. Guo and L. Zhang

Design and Implement of a Channel Model Based on TD-LTE
H.H. Wang, M. Li and L.C. Chen

Research on Adaptive Modulation and Coding Technology in LTE-A System
D. Wang and C.Y. Xu

Research and Realization of Bearer Control Entity BC of UE Side in LTE System
F.T. Chen, J. Wang and W.M. Yan

Designation and Realization of the Interworking Gateway between IMS and PSTN
H.S. Liang, H.B. Wang and J. Hou

Simulation Analysis of Interference Polarization Estimation and Filtering Algorithm
R.L. Tian, G.Y. Zhang and L. Ren

An Improved Refinement Algorithm of Triangular Mesh Subdivision Based on Minimum Weight Theory
H.H. Liu

The Splicing and Recovery of Shredded Paper
W.J. Gan, H.Y. Wang and Y.R. Zhang

Research and Design of Lead-Acid Battery Manufacturing Execution System Based on Barcode Scanning
X.T. Lin, H. Zhou, M.N. Ni, Y. Li and S. Chen

Algorithm Research Based on Distributed Water Multi-Level Resources Scheduling
Y.F. Yuan and J.L. Wang

The Studies of Modeling Method for Three Dimension Iterated Function System
S.S. Dong, Q. Wang and X. Rong

Research and Application of Reordering of the Chinese NP “A+(de)+B+(de)+C”
X.D. Liu, Y. Zhu and Y.H. Jin

Zero Taps Detection-Based Sparse Channel Estimation Method for OFDM Systems
X.J. Zheng and J. Jiao

Chapter 3: Applied Sciences and Engineering Researches

Research on Modular Construction and Evaluation of the Green Building Technique System
G.H. Bai

Study on Drilling and Completion Techniques of Horizontal well for Coalbed Methane
X.F. Du and Y.Z. Zhao

Heavy Rail Spray Quenching Wind Heat Stress and Residual Stress Analysis
C.M. Xu

Chemical Reaction Optimization for Earliness-Tardiness Scheduling Problem
C. Cheng, Y.J. Tan, R.J. He and Y. Feng

Frictional Loss of Prestress Caused by Deflected Tendon
K.J. Shin, Y.Y. Kim and H.W. Lee

Numerical Simulation Study on the Failure Mechanism of Bedding Rock Slope Based on the Lagrangian Multiplier Method
F. Yu, Y. Zhang, S.X. Chen and J. Li

Analysis of Slimhole Drilling Technology Application in Shengtuo District
G.Q. Hu, R. Fu and G.H. Qin
Analysis and Simulation on the Deformation of Large Steel Bridge under Pressure
J.F. Lu and X.L. Li

A Novel Resurf Stepped Oxide MOSFET with Slope Field Plate
B.T. Sun, L.X. Wang, Y.F. Zhang, L.M. Song and W. Xiong

Radial Fatigue Analysis of Steel Hub Based on Finite Element Analysis
S.H. Liao, P. Xu, L. Zhao, H.J. Li and K. Chen

Structure Strength Analysis on a Steel Chimney Outer Wall with Three Spiral Guide Plates
X.L. Deng, J.N. He and C. Zhang

Numerical Simulation of Flow Field and Heat Transfer inside a New Enhanced Tube
C.L. Xu, W.J. Liu and W.P. Hu

Numerical Analysis on the Effect of Thermal Insulation of Closure on Fire Smoke Spread Rate in Building's Corridor
X.W. Peng

A Study on the Settlement Character of High Fill Channels
Y. Zhang, F. Yu, S.X. Chen, X.J. Chu and Z.J. Dai

Study on Critical Moisture Content of Unsaturated Evaporation
H. Zhang, W.L. Hu and J.L. Cao

Study on Comparison of Predicting Method on Settlement and Deformation of Unballasted Track in the Button of Tunnel on High Speed Railway
T.B. Lei, S.D. Xiong, L.F. Jiang and Z.J. Dai

Study on Characteristics of Additional Stress and Bearing Capacity of Multi-Layered Foundation in Northern Anhui
X.J. Chu, F. Yu, S.X. Chen and Z.J. Dai

A Determination Procedure of Foundation and Pile Bearing Capacity in Slopes
X.J. Chu, S.X. Chen, J. Li and Z.J. Dai

Active Vibration Control of Piezoelectric Material Using Fuzzy Logic Controller
T. Hu, Q.B. Huang and S.D. Li

Occultation Judgment for the Hemispherical Coverage Multi-Planar Arrays Antenna
J.H. Hao, D.F. Pan and N.P. Cheng

The TSP Method in the Application of the Scraps of Paper Splicing
X.X. Chen and X.Z. Lu

Decision Making in a Fuzzy Environment and its Management to the Diminishing Manufacturing Sources and Material Shortage Problems
Y.C. Tsai and Y.L. Chi

Design of Surface Plasmon Polariton Sensor Design by Grating Structure
J.Y. Chen and G.J. Liu

Time-Varying Channel Multi-Carrier Modulation Technology Research
Z.Y. Sun and X. Ling

The Prediction of Spacecraft Disturbance Starlight Refraction and Navigation Simulation Research
B. Yang, W.H. Lian, W.D. Liu and F. Si

Study on Robot's Obstacle Avoidance Walking
J.J. Li and J.J. Zhu

Under the Uniform Linear Array Related Research of Broadband Signal DOA Estimation Algorithm
F.T. Chen, L.G. Wang and D. Wang

The Application of Cellular Automata in Traffic Flow Management and the Present Situation
H.X. Xu and D.M. Zhang

Study on Stored Product Insects Identification Based on near Infrared Spectroscopy (NIRS)
W.C. Zhao, X.Y. Chi and C. Zhang

Research on the Slab Warehouse Transportation Scheduling Problem of the Iron-Steel Plant
Q.Q. Zhang, P. Liu and T. Zhang

Design and Realization of Anti-Broadband Electromagnetic Interference Wired Phone
S.F. Lin, J.Z. Shen, Y. Zhou and Y.L. Ye

Design and Analysis of System for Radar Reconnaissance Based on UML
G.Q. Jin and J. Xie
Patent Early-Warning Model Based on Visualization
W.T. You, S. Chen, Z.Y. Yang and Z.Q. Sun 2722

A Novel Medical Image Enhancement Algorithm Based on Dyadic Wavelet Transform
J. Li, Y.F. Yang, P.X. Wang and B. Li 2726

Research on the Methods of Eliminating Radar Calibration Error Based on LRLS Filter
H.D. Sun and X. Lu 2730

Two Classes of Quadratic Crooked Functions
X.Y. Duan and Y.L. Deng 2734

Medical Image Registration Based on Simplified Multi Wavelet Transform
Y.F. Yang, P.X. Wang, J. Li, X.R. Wang and B. Li 2739

An Extend SIR Opinion Dynamic Model Base on Empirical Signed Network Mining
W. Li, P. Li and H. Wang 2744

Research on the Growth Mechanism of High-Skilled System in Computer Science and Technology
S.J. Gong 2748

The Analysis on the Network Security Situation Assessment and Situational Awareness
Abasi 2752

Discussion on Application of the Garment Industry Logistics Informatization
R.X. Zhang and W.X. Yang 2756

A Study of the Development of Henan Martial Arts from the Perspective of Information Network
Y.Z. Li and S.R. Yan 2760

Analyse of OFDM System by BER Performance Method
W.B. Wang, D.Y. Liu and Y.Q. Yao 2764

Analysis of Wireless Relay System under Interference Environment by SNR Enhancement Method
W.B. Wang, D.Y. Liu and Y.Q. Yao 2768

Study of the OFDM System Carrier Synchronization Technology
W.B. Wang, D.Y. Liu and Y.Q. Yao 2772

Study of Transmission Characteristics of Optical Pulse in the Dispersive Fiber
W.B. Wang, D.Y. Liu and Y.Q. Yao 2775

Sustainable City Growth New Models for the Post-Industrial City
J. Cao and Y. Lin 2778

Subjective Evaluation Method of Stereoscopic Video for the Digitizing of Dynamic Culture Resources
H. Ren, Z.B. Su, F. Meng, H. Li and H.X. Chen 2782

Segment Compressive Sensing of Pipeline Data by Sequential Approach
H.J. Wan, J. Ma, W.G. Lin and B.R. Yu 2787

Tri-Band Bandpass Filter Using Open Loop Resonator Loaded by One Stub with Three Branches
X.B. Ma, F.S. Zhang and C.F. Liang 2791

Research on a Novel Target System for Aerial Defence Artillery
C.F. Yu, Z.L. Zhou, Z.Y. Chen and Y. Yao 2795

Research of Human Factors under Automatic ATC System
W.J. Pan, W.B. Wang, D. Wu and C.Y. Huang 2799

Numerical Simulation of Flow Field of Air-Jet in Quenching Process
X.C. Li 2804

A Novel RFID Tag Dipole Antenna
M.L. He, Y.B. Xue and J. Zhang 2808

Attitude Model Identification for Sub-Mini Dual Ducted UAV under Hovering
T.Y. Gao, D.D. Wang, F. Tao and H.L. Ge 2812

The Research of Electrical Equipment Identification Technology Based on Image Processing
G.M. Shi, Z.J. Liu, H. Su and Q.T. Wei 2816

Switching Power Supply Impact on the Power Line Carrier Communication
L.H. Liang, X.H. Zhang and Y.S. He 2820

Research on Identification Technology of Vehicle License Plate Based on Image Processing
G.M. Shi, T. Wu, H. Su and Q.T. Wei 2827
<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Detection System about Train Brake Discs' Cracks Based on Image Processing</td>
<td>2831</td>
</tr>
<tr>
<td>G.M. Shi, M. Lv, C. Liu and Q.T. Wei</td>
<td></td>
</tr>
<tr>
<td>Application of Computer in the Directional Well Technology</td>
<td>2835</td>
</tr>
<tr>
<td>K.Y. Li, Y.M. Zhang and J. Liu</td>
<td></td>
</tr>
<tr>
<td>NN-IMC Control for DFIG Based Wind Power Generation System RSC</td>
<td>2839</td>
</tr>
<tr>
<td>W.J. Si and N. Zhang</td>
<td></td>
</tr>
<tr>
<td>Thermal Load Simulation and Structure Improvement of High Speed Diesel Engine Piston</td>
<td>2843</td>
</tr>
<tr>
<td>H.Q. Ning, J.S. Dou, X.H. Huang and Y.W. Xie</td>
<td></td>
</tr>
<tr>
<td>Research on Airborne Radar Reconnaissance Map Projection Location Error Correction Method</td>
<td>2847</td>
</tr>
<tr>
<td>X.Z. Zhang, G.Y. Zhang and J.F. Pu</td>
<td></td>
</tr>
<tr>
<td>Cymbal Piezoelectric Composite Transducer for Soccer Robot Attitude Detection</td>
<td>2851</td>
</tr>
<tr>
<td>Application</td>
<td></td>
</tr>
<tr>
<td>X.F. Xu</td>
<td></td>
</tr>
<tr>
<td>Online Identification and Suppression of Low Frequency Oscillation in Power System Based</td>
<td>2855</td>
</tr>
<tr>
<td>WAMS</td>
<td></td>
</tr>
<tr>
<td>B. Qu, J.Y. Wu, H.K. Ai and Y.H. Zhou</td>
<td></td>
</tr>
<tr>
<td>Analysis and Research Regarding Characteristics of THz Receiver Noise Using Diode Parameter</td>
<td>2862</td>
</tr>
<tr>
<td>Error</td>
<td></td>
</tr>
<tr>
<td>Correcting Synchronous Scanning OMIS Remote Sensing Images Using the Spatial Orientation Data</td>
<td>2867</td>
</tr>
<tr>
<td>of the Inertial Navigation System</td>
<td></td>
</tr>
<tr>
<td>X.H. Zhou</td>
<td></td>
</tr>
<tr>
<td>Medical Image Retrieval Based on Simplified Multi-Wavelet Transform and Shape Feature</td>
<td>2871</td>
</tr>
<tr>
<td>H.S. Dang and C.J. Gu</td>
<td></td>
</tr>
<tr>
<td>Structure Lane Detection Based on Saliency Feature of Color and Direction</td>
<td>2876</td>
</tr>
<tr>
<td>H.S. Dang and C.J. Gu</td>
<td></td>
</tr>
<tr>
<td>Research on Dynamic Characteristic of Giant Magnetostrictive Actuator</td>
<td>2880</td>
</tr>
<tr>
<td>L.Y. Li, B.P. Yan and C.M. Zhang</td>
<td></td>
</tr>
<tr>
<td>A Portable ECG Monitor with Low Power Consumption and Small Size Based on AD8232 Chip</td>
<td>2884</td>
</tr>
<tr>
<td>T.C. Lu, P. Liu, X. Gao and Q.Y. Lu</td>
<td></td>
</tr>
<tr>
<td>A Control System in Satellite Navigation and Communication Terminal</td>
<td>2888</td>
</tr>
<tr>
<td>Z.Q. Hu, G.X. Ai, L.R. Zhang and C. Hu</td>
<td></td>
</tr>
<tr>
<td>A Visual Tracking Based on Particle Filter of Multi-Algorithm Fusion</td>
<td>2893</td>
</tr>
<tr>
<td>T. Li and Q.Y. Sun</td>
<td></td>
</tr>
<tr>
<td>Research on the Monitoring Technology for Mountain Substation Geological Safety Based on the</td>
<td>2897</td>
</tr>
<tr>
<td>Optical Fiber Sensing Net</td>
<td></td>
</tr>
<tr>
<td>H.L. Wang, D.D. Wang, M. Cao, S.Q. Zhang, C. Li and L.J. Gu</td>
<td></td>
</tr>
<tr>
<td>Environmental Economic Dispatch Considering Valve Point Effects</td>
<td>2902</td>
</tr>
<tr>
<td>G.L. Yuan, T. Yu and J. Du</td>
<td></td>
</tr>
<tr>
<td>The Frequency Domain Analysis of Speech Signals Based on MATLAB</td>
<td>2906</td>
</tr>
<tr>
<td>W.P. Cui and X.Y. Wang</td>
<td></td>
</tr>
<tr>
<td>Hybrid Adaptive Robust Controller on Inertial Gyro LOS Platform</td>
<td>2910</td>
</tr>
<tr>
<td>C.H. Luo, C.W. Ma and Y. Li</td>
<td></td>
</tr>
<tr>
<td>An Efficient Image Indexing Method Based on Class Specific Hyper Graph</td>
<td>2914</td>
</tr>
<tr>
<td>K. Lu, S.P. Xia and S.H. He</td>
<td></td>
</tr>
<tr>
<td>The Development of a Equipment Repair and Identification Management System</td>
<td>2919</td>
</tr>
<tr>
<td>L.J. Qiu, J. Wen and H.Z. Cai</td>
<td></td>
</tr>
<tr>
<td>Design of Anti-Broadband Electromagnetic Interference Wired Phone Based on Speech Enhancement</td>
<td>2923</td>
</tr>
<tr>
<td>S.F. Lin, Z.G. Zhang, T.L. Du and Y. Zhou</td>
<td></td>
</tr>
<tr>
<td>Multiple Objective of Train Operation Process Based on Modified Particle Swarm Optimization</td>
<td>2927</td>
</tr>
<tr>
<td>H. Rong and C.Z. Yu</td>
<td></td>
</tr>
<tr>
<td>The Research of On-Line Monitoring System Design for Temperature Distribution in Coalmine</td>
<td>2931</td>
</tr>
<tr>
<td>Gob Area</td>
<td></td>
</tr>
<tr>
<td>Z. Huang, Z.J. Ye, Y.H. Zhang and Y.K. Gao</td>
<td></td>
</tr>
</tbody>
</table>
Design of a Novel Digital Baseband for UHF RFID Tag
W. Lv, X.A. Wang and J.T. Su

A Study of Airborne Antennas Radiation and Mutual Coupling
H. Yang, B.N. Li, N. Luo, S.R. Zhang, S.J. Zhang and C.Q. Liu

Study on the Detection of Slurry Concentration in the Thickener
C.L. Zhang, G.P. Zhang and J. Ma

Research and Realization of Phased Array Radar Functional Simulation System
Y. Zhang and J. Wang

The Decision Method of Electromagnetic Compatibility between Radars Based on the Theory of Signal Detection
C.Y. Wang, X.L. Qi, S. Chang and L. Ren

Research on the Existence Detection of DSSS Signal Based on Auto-Correlation
Y.L. Shi, C.M. Du, L. Ren and H.X. Yu

Study on Radar Weak Signal Detection Method Based on Wavelet
L. Ren, Y.L. Shi, R.L. Tian and C.Y. Wang

Effect of Fluctuation of Wind Power Output on Power System Risk
J. Liu, Y.W. Song, Y. Liu, H.L. Jiang and S.Q. Zheng

A Maximum Sustainable Area Model for Harvesting Eichhornia Crassipe in Environmental Phytoremediation
L. Sun and Z.S. Zhu

A Decision Support Model for Ecological Restoration of Coastal Mud Flat
L. Sun and Z.S. Zhu

Overview of Fault Detection and State Diagnosis Technology in Wind Turbine Blades
R. Li, W.L. Du, X.J. Shen and F.X. Li

Dynamic Modeling Method for Generator's Excitation System Based on Smart Component Technique
F.X. Li and J. Zhang

A Method of Constructing Steiner Triple System of Order 2t+1
Z.D. Xu, X.Y. Li and W.X. Chou

Research on Velocity Measurement of PD Radar Based on Non-Coherent Accumulation and Waveform Analysis
X.D. Zhang, Y.N. Yuan and J. Wang

The Protection and Control Strategy of Series Compensation Equipment in Distribution Network
X.B. Liu, T.Z. Wei, Q.H. Huo and L.B. Han

Ro-Ro Turn Dam Coal Transportation Scheme Selection Based on SEM
Y. Liu, T. Liu and L.Q. Ding

Design and Implementation of Digital Circuit of Multi Level Experimental System Based on LabVIEW
Z.J. Tang, C.Y. Li and Y.G. Zhao

Research on Water Level Trends of the Middle Yangtze River Based on Mann-Kendall and ARIMA Model
T. Liu, P.L. Zhang and Y. Xu

A Novel Medical Image Registration Based on Contour Features and MultiScale Information
Y.F. Yang, C.X. Lin, P.X. Wang, J. Li and B. Li

Study on Classification of Transport Goods for its Transport Attributes Based on Quantitative Theory III
Y.Y. Chen, P.L. Zhang and T.X. Liu

Angle Estimation for Bistatic MIMO Radar with Unknown Mutual Coupling Based on Improved Propagator Method
J.F. Li, W.Y. Chen and X.F. Zhang

Based on Mathematical Modeling and Mathematical Experiment Course Platform Enhancing Students Innovative Ability
X.Y. Li and Z.D. Xu

Design on CPW-Fed Open-Slot Antennas for 2.4/5.2/5.8-GHz Wireless Applications

Construction and Enumeration of Multiple-Element Systems of Order v
X.Y. Li, Z.D. Xu and W.X. Chou
Double Spectrums Imaging System and Image Fusion
D.H. Huang, L.X. Ma and W. Wei 3045

Computer Simulation Study Based on Matlab
X.P. Xie and Y.Y. Li 3049

Control Simulation for Three Tank Water Level
L.P. Song, D.J. Xu, J.L. Shi and B. Jia 3053

Design and Implementation of Universal Detection Equipment of Inertial Navigation System Based on "Platform + Adapter Structure"
G.D. Li, C.F. Zhao, W.Q. Zhang, Q.B. Kong and X.J. Wang 3057

Methods of Constructing and Enumerating the Steiner Triple System with Order 31
X.Y. Li, Z.D. Xu and W.X. Chou 3061

Human Resource Configuration Based on SEM of Waterway System
S.W. Zhou and L. Yao 3065

Lung Segmentation in Feature Images with Gray and Shape Information
G.D. Zhang, Y.F. Guo, S. Gao and W. Guo 3069

Design of Bus Intelligent Dispatching LED Screen Terminal Based on GPRS
Y.J. Zhang 3073

Air Quality Evaluation Based on Image Defogging
W.M. Yang, X. Chen and Q.M. Liao 3077

Research and Implementation of Instrument Management System
W. Dong 3081

Design of Low Frequency Hydrophone Based on PVDF Piezoelectric Materials

A Novel Three-Dimensional Passive Micromixer with Replaceable Mixing Chamber
H. Zhang, L. Tian, X.W. Han and X.W. Liu 3090

Parameter Setting Based on JGPC Algorithm for Liquid Level Control System
Y.X. Wu and Z.Y. Gao 3094

Research on Production of Dominant Cluster Supply Chain Logistics Capability Based the LD-CED Model
L.Q. Ding, Y.Z. Li, L. Yao and Y. Jin 3099

A Novel Design on Broadband Circularly Polarized Slot Antenna

The Receiving Method Based on Signal Separation by Spread Spectrum in the Cooperative System with Step Direct Channel

Simulation and Analysis of Thermal Distribution in Compact Multi-Chip Module

Research on CT Image Segmentation of Computer-Aided Liver Operation
Y.T. Wei and Y.B. Zhou 3115

Research on Characteristics of Plant Electrical Signal under High Voltage Pulse Stimulation

Design of Multi-Point Temperature & Humidity Monitoring System
H.Y. Li, D.P. Ye, H.Y. Weng, H.J. Hu and W. Xu 3126

Research on Speech Enhancement Based on Wiener Filtering
C. Cheng and L. Huang 3130

On the Image Processing Mechanism Based on the Fuzzy Vision
T.F. Cai and Z.G. Yang 3134

Indication System Weight Calculation on Quality Control of Production Process for Medical Devices
H.X. Zhang, Y. Liu and X.K. Shi 3139

Framework Design on Customer Relationship System for Medical Devices Industry
H.X. Zhang, Y. Liu and X.K. Shi 3143

Establishment on Comprehensive Evaluation Indication System for Leisure Sports Development Level
L. Zhang and Z.L. Wang 3147

Design and Application of Digital Filter Based on Calculus Computing Concept
Y.C. Zhao 3151
Research on Option Pricing Model under Uncertainty
K.L. Zhang and L.X. Song

Path Reconstruction of Intelligent Traffic Based on Positive Feedback System
X.L. Zhang

Removing Cloud of Grey Remote Sensing Image Based on Network Communication
M.M. Yue

Research on Electrical Radiation of Marine Functional Materials Based on Negative Feedback Control System
F. Wang, T.M. Ding and W.H. Song

Electronic Components Thermal Stability Analysis of PCB Plate Based on the Micro Unit Heat Balance Method
J. Luo

Feature Extraction and Recognition Based on the Biological Analysis
W.C. Zhao and F. Wang

Numerical Simulation Analysis of Electronic Equipment Thermal Reliability in Steady-State Temperature Field
W.M. Li

The Nonlinear Dynamics Characteristics of Stock Market and its Variation
J. Meng, T.Y. Zhu, X. Chen and X. Yin

Application and Analysis of Parametric Substructure's New Modeling Method in PCB Components
H.X. Li

Detection and Tracking Recognition Algorithm for Weak Moving Target
X.J. Niu and B. Lan

Study of Audio Circuit Board Testing System of some Station Based on DSP
Y.F. Peng, C. Shu and X.L. Tan

A Study on Posture Correction Based on Computer Vision
D.L. Cai and S.N. Lin

Analysis of Lower Limbs Dynamics and its Application in the Sports Training Based on Computer Vision
S.G. Jing and W.Y. Wan

An Algorithm for Segmenting Video Shot
L.G. Tian, S.B. Zhang and X.H. Sun

Modeling and Analysis for Optimization Mode of City Bus Operator Scheduling Management
Y.J. Liu

Optimization Mechanism Modeling for Emergency Evacuation in Group Incidents
Y.J. Liu

The Spatial-Temporal Change Pattern of Wetland in the Middle-Lower Yangtze River: A Case Study of Wuhu, Anhui
X.L. Tao and Y.P. Bai

Analysis for the Impacts of Large Logistics Industry Intelligent Monitoring
X. Yao

The Research of Remote Sensing Image Fusion Technology
B. Wang and C. Wang

The Development of Virtual Experiment Platform for Signal Analysis and Processing Based on LabVIEW
H.X. Zhang, Y. Yan, H. Zhou, J. Huang, J.X. Sun, L. Huang, J.S. Shi and Y.J. Qiao

Numerical Simulation of Heavy Rail End Induction Heating Temperature Field
C.M. Xu

The Research on Online Measurement System of Stone Slab Based on Improved Sobel Operator
Z.F. Qin, M. Zhao, L. Zhang and G.Y. Zhang

The Establishment and Simulation of a Limited Floating Body Motion Model under High Sea Condition and Replenishment
B. Yu, Y. Yu, C. Li, Z.K. Zhu and K. Taranov

Research of Energy Constitution for Ocean-Going Fishing Vessels towards Low Carbon
L. Ren, Y.M. Diao and Z. Wang
<table>
<thead>
<tr>
<th>Title</th>
<th>Authors</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Image Enhancement Technology Based on Lifting Wavelet</td>
<td>F.T. Guo, X.H. Liu and C. Zhao</td>
<td>3261</td>
</tr>
<tr>
<td>A Fast Object Tracking Approach in Vision Application</td>
<td>X.J. Zhang, C.M. Sha and Y.J. Yue</td>
<td>3265</td>
</tr>
<tr>
<td>The Interpretive Structural Model of EPC Project Risk Factors</td>
<td>J.M. Wang, Y.M. Li and Y.P. Zhu</td>
<td>3269</td>
</tr>
<tr>
<td>An Improved Road Roughness Simulation Method Based on Trigonometric Series Method</td>
<td>X. Wang, J.B. Zhao and J.Z. Wang</td>
<td>3277</td>
</tr>
<tr>
<td>A Study on the Tolerance Value and Biodiversity of Benthic Macroinvertebrates</td>
<td>Z.W. Luo and W.Y. Wu</td>
<td>3283</td>
</tr>
<tr>
<td>An Improved Personnel Evacuation Cellular Automata Model Based on the Ant Colony Optimization Algorithm</td>
<td>D.Q. Wang, Q.Q. Gong and X.F. Shen</td>
<td>3287</td>
</tr>
<tr>
<td>A Novel RFID Indoor Positioning System Based on Doppler Effect</td>
<td>H.C. Tong and D. Wang</td>
<td>3292</td>
</tr>
<tr>
<td>Accurate Dead Reckoning Localization System Using RFID Phase</td>
<td>B. Li and D. Wang</td>
<td>3296</td>
</tr>
<tr>
<td>Design of Control System Based on Siemens (LOGO!) for Vegetable Greenhouse</td>
<td>S.C. Zhang, Y. Liu, X.M. Li, X.J. Wang, J.S. Lu and X.H. Tao</td>
<td>3300</td>
</tr>
<tr>
<td>Performance Improvement of Group Coding with RF Tags on Missing Objects Detection and Data Recovery</td>
<td>C.X. Chen and D. Wang</td>
<td>3305</td>
</tr>
<tr>
<td>Research on Supply Chain Abnormal Event Detection Based on the RFID Technology</td>
<td>S.P. Huang and D. Wang</td>
<td>3309</td>
</tr>
<tr>
<td>Biological Effects of Electromagnetic Radiation and Protection</td>
<td>D.C. Zhao and L.S. Zhang</td>
<td>3313</td>
</tr>
<tr>
<td>Optimal Placement and Sizing of Distributed Generation in Smart Distribution System</td>
<td>S. Zhang, Y.M. Liu, F. Gao and B. Tian</td>
<td>3322</td>
</tr>
<tr>
<td>Power Equipment Control in Four-Footed Bearing-Burden Robot Dog</td>
<td>J. Wang, L. He and Y.T. Zhang</td>
<td>3328</td>
</tr>
<tr>
<td>Design and Implementation of Remote Intelligent Control System Based on Cortex-M3</td>
<td>J. Yang, W.L. Li, R.X. Zhu and G.H. Cai</td>
<td>3336</td>
</tr>
<tr>
<td>Electromagnetic Response for Horizontal Electric Dipole Source Considering Conduct &amp; Displacement Current</td>
<td>J.B. Yan, X.Y. Huang and P.Y. Wu</td>
<td>3340</td>
</tr>
<tr>
<td>Research on Combined Environmental Stress Test for Hybrid Integrated DC/DC Converter</td>
<td>X.W. Liu, E.R. Ji and X.H. Xu</td>
<td>3345</td>
</tr>
<tr>
<td>Sparse Representation of the Human Vision Information and the Saliency Detection Algorithm</td>
<td>J.B. Jin and Y.X. Liu</td>
<td>3349</td>
</tr>
<tr>
<td>Image Segmentation Algorithm Research for Sport Graphics Based on Artificial Life</td>
<td>J.M. Qi and G.Y. Liang</td>
<td>3354</td>
</tr>
<tr>
<td>A Novel Approach Based on Multi-Layer Background Subtraction and Seed Region Growing for Sport Graphics Segmentation</td>
<td>L. Liang and H.W. Wang</td>
<td>3358</td>
</tr>
<tr>
<td>Enhancement Algorithm of Color Fog Image Based on the Adaptive Scale and S-Cosine Curve</td>
<td>Y. Gao, L.J. Yun, J.S. Shi and F.Y. Cheng</td>
<td>3362</td>
</tr>
<tr>
<td>Regions of Interest Detection Algorithm Based on Improved Visual Attention Model</td>
<td>Z.H. Xu, J. Yang, W.J. Zhang and Z.J. Yang</td>
<td>3368</td>
</tr>
</tbody>
</table>
B-Spline Curve Approximation with Nearly Arc-Length Parameterization
S.H. Shu, Z.Z. Lin and Y. Ding

Fluid Model Driven by an M/M/1 Queue with Set-Up and Close-Down Period
F.W. Wang and B.W. Mao

Comprehensive Calculation of Winding Loss, Fluid and Temperature Field in Large Power Transformer
Y.T. Jing, Y. Li, L. Li, M.H. Jiang and N. Wang

Cramer-Rao Bound for Parameter Estimation in Bistatic MIMO Radar
L. Li

Information Estimation of Civil Airplane in Interference Localization Background
L. Li

Modified Worst Case Response Time Analysis of CAN Bus Consisting of Nodes with Buffers
W. Jin, X. Chen and H.Q. Zhang

A Calculus for Concurrent Processes with Cryptographic Primitives
H.B. Wang

Elastodynamics Model Updating for the Monitoring of Reinforced Concrete Beam: Methodology and Numerical Implementation
J. Waeytens, V. le Corvec, P. Lévéque, D. Siegert and F. Bourquin

A Simple Finger Stimulator for Simultaneous Vibration and Heat Stimulation

Fear Enabled Security System Using Spectroscopy, Sensing & Imaging
B. Dutta

Design of Circular Patch Microstrip Antenna with Egg Slot for 2.4 GHz Ultra-Wideband Radio Frequency Identification (UWB RFID) Tag Applications
Y. Rudy, D.A. Wahyu and F.E.P. Muhammad

Context Representation and Reasoning Based on Spatial Objects for Smart Space Service
S.K. Rhee and K. Lee

Power Allocation and Relay Selection Algorithm in Multi-Relay Amplify-and-Forward Networks
Z.K. Zhou and Q. Zhu

Optimal Power Allocation in SM-OFDM System Based on Visible Light Communications
H.S. Fu, Y.J. Zhu and W.B. Cai

Study on Delay Synchronizing Rectification Control Method of Bi-Directional DC-DC Converter for Photovoltaic System
C.L. Zhang and B. Wu

Research on Power Management Control Strategy for Photovoltaic Power System
C.L. Zhang and B. Wu

Research of Navel Orange Defect and Color Detection Based on Machine Vision
G.L. Yang, L. Luo, Y.Q. Feng and H.S. Zhao

Dynamic Modeling and Grasp Characteristics Analysis of an Underactuated Prosthetic Finger
L. Chu, Y. Zhang and H. Deng

Gait Generation of Humanoid Robot Based on Analysis of the Human's Gait
C.W. Wu and H. Deng

Calculation and Analysis of Temperature Rise in Transformer Tank Based on Electromagnetic-Thermal Coupling Method
Y.T. Jing, Y. Li, L. Li, M.H. Jiang and N. Wang

An Improved Image Segmentation Active Contour Model
L.F. Zhou and C.X. Cai

Calculation of 3D Fluid Flow Field and Thermal Field of Air-Cooled Medium Motor
T. Hu, Y. Li and R.Y. Tang

Design of Adaptive Precision Power Supply Based on STM32
B. Qu and H.J. Gu

The NFE Model and its Convergence
H. Zong, J.R. Qi, S.W. Fan, J.H. Qiu and Q. Wu

Research on Key Techniques of Shield Construction in Mixed Ground
H.H. Lu, F.C. Zhuo, Y. Bai and Q.S. Li
Analysis of Wireless Energy Transmission Characteristics via Magnetic Resonances Based on Mutual Inductance Model
Z.Q. Zhao, Y.H. Chen, M.J. Fu, C.L. He, J.J. He, P. Yu, G.Q. Li and J.Z. Lin

An Improved Weighted Centroid Localization Algorithm in WSN
D.Y. Zou, H. Lv, D.L. Zheng and T.F. Han

Performance-Based Research of Existing Reinforced Concrete Building Structure Seismic Evaluation and Reinforcement Technology
L.N. Pei

Study on ECG Signal Wavelet Denoising Algorithm Based on the MSP430 Platform
Z.Q. Zhao, M.J. Fu, Y.H. Chen, C.L. He, J.J. He, P. Yu, G.Q. Li and J.Z. Lin

Planar Magnetic Motor in the Applications of New Energy Electric Vehicles
Y.H. He, S.Y. Yu and L.T. Zhang

Design and Implementation of High-Precision Mine-Used Water-Pressure Sensor
R.X. Wang, N. Zhang and L.N. Xu

Research on a New Type of Plating Power Supply
Y.H. He and S.Y. Yu

Design of Illumination Intensity Measure Instrument
W. Song, Z.Y. Meng and S.W. Chen

Suspended Four-Dimensional Motor-Driven Adjusting Mount Structure with High Resolution
J.S. Wang, X.X. He and Z.Y. An

Partial Discharge Characteristics of GIS
Z.H. Wang, L. Gou and X.M. Wang

Research of Detecting System on Aneroid Capsule of Height Control Module of Automatic Unlocking Device
Y.J. Wang, L.J. Wang, Z. Zhou, Y. Qing and J.Y. Yin

Modeling and Simulation of Combustion Chamber
R.Z. Duan, Z.Y. Chen and L.J. Yang

Vectorization Algorithm of Optics Contact Angle Image Based on VB
Y.M. Sun, Z.M. Kou, X. Xie and X.P. Zhao

Fault Line Selection Research on Single Phase Ground Fault of Small Current Grounding System Based on Wavelet Theory
X. Gao and L. Wang

Establishment of Evaluation Indication System on Embedded Industrial Technology Innovation
X.L. Liu, H. Tan, S.C. Cao and T. Xing

The Circuit Design on Thermostat Control of Solar Water Heater's Water Temperature
L. Song

Operation Analysis of the Rail Transit Stations Energy-Saving Air-Conditioning System Based on Petri Nets

Air Conditioning Units Optimize Control Strategy Based on Multi-Objective Optimization Evolutionary Algorithms

A Novel Three-Phase Three-Level Inverter with Asymmetrical Legs
J.C. Wei, K. Huang, X.C. Qiu and R.R. Huang

An Improved Physical Downlink Control Channel De-Resource Mapping Method in Long Term Evolution Systems
D. Wang, W.W. Xu and J. Luo

LFSR Multi-Step Parallel Update Technology Utilizing Divider Circuit
H.Y. Li

Design and Implementation of the Video Player Based on the Devkit8500D Hardware Platform
X. Yu and Y. Song

Research on the Continuous Speech Feature Extraction Method for Different Noise
W. Liu, Y.M. Sun and Y.X. Liu

Design of Perimeter Security Monitor System
F.F. Song and B.J. Zhu
The Energy-Saving Control of Combined Multi-Unit for Building Automatic System in the Subway  
Z.J. Shi, B. Xu, B.G. Zheng and X.H. Zhu  

Forward Reflection Characteristics of Typical Smooth Building Walls and the Simulation Analysis  
S.Y. Zhao, K.D. Xu, S. Qiu, W.Q. Jin, H. Guo, X. Wang and K.J. Jin  

Image Denoising with Contour-Based Directionlet Transform  
H.A. Xu, G.H. Peng and Z. Liu  

Design of the Engineering-Oriented Equipment Requirement Demonstration Model Base  
Y.P. Fan, Q.S. Guo, J. Bai and J.L. Wang  

Average Population Density Estimation in Rail Transit Stations Based on Video Statistical Analysis  

An OPS Architecture of Multistage Wavelength Conversion with Shared Limited Range  
W.M. Song  

Transmission of Electromagnetic Waves in Softmaterial Waveguides  

Lifetime-Aware Capacity Dynamic Adjusting for Solid State Disk  
K. Bu, H.J. Liu, H. Xu and Z.L. Sun  

A Flexible Hemispherical Coverage Array Antenna Based on Multi-Planar Arrays  
D.F. Pan, J.H. Hao, N.P. Cheng and X.J. Dou  

Comparison of Shannon Capacity between OFDM and DFT-S OFDM  
M. Wei, H.W. Yang and D.C. Yang  

Study on Traffic Control of Single Intersection Based on Rough Set  
X.J. Cheng  

Detection of Traffic and Road Condition Based on SVM and PHOW  
S.J. Jia, Y.T. Zhai and X.W. Jia  

A Study on the Cognitive Process of Stereopsis in Small Uncrossed Disparity  
Y. Wu and Q. Li  

Application of Radar Velocity Tomography for Detecting Coal and Gas Outburst in Deep Coal Mining  
C. Du, X.J. Xu and X.Y. Li  

A Chemical Embedded Video Monitoring System Based on Real-Time Video Compression MPEG4 Encoding  
H.B. Zhang and G. Liu  

Design of Digital Broadcast Radio System Based on STM32  
S.Y. Li  

The Influence of Additive Noise on Information Hiding Based on Linear Carrier  
D.Y. Li, J. Xiao and X.X. Leng  

Experiment and Analysis on the Failure Regularity and Mechanism of a Certain Radio Fuze under Continuous Wave Irradiation  
J.L. Xiong, Z.C. Wu, Y.W. Sun and J. Yang  

An Initial Registration Method of Point Clouds Based on Random Sampling  
X.X. Leng, J. Xiao and D.Y. Li  

Research on Skew Imaging Simulation of Frame Cameras  
M. Li, W.B. Sun, F.J. Zhang and D. Wu  

Suppression of Sunlight Interference for Fluorescence In Situ Measurement  

An Improved Watershed Segmentation Algorithm for Bridge Image  
Q.Q. Li and W. Li  

Application Research of Wireless Sensor Network in the Fine Production of Agriculture  
B.G. Zheng and H. Wang  

Highway Toll Free Release Queue Length Quantitative Algorithm Based on 3G/4G Intelligent Monitoring System  
H.M. Guo and H.L. Su  

The Principal Component Analysis of Coastal Areas  
Q.J. Wang and D.S. Xue
<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fresh Product Supply Chain with RFID: Analysis and Investment Decision</td>
<td>3707</td>
</tr>
<tr>
<td>L. Zhang and T.J. Fan</td>
<td></td>
</tr>
<tr>
<td>Fuzzy C-Mean Clustering Image Segmentation Algorithm Research for MRI Sport Graphics Based on Genetic Algorithm</td>
<td>3711</td>
</tr>
<tr>
<td>T.L. Ma, L. Wang and D. Wang</td>
<td></td>
</tr>
<tr>
<td>Dynamic Image Segmentation for Sport Graphics Based on Wavelet Transform</td>
<td>3715</td>
</tr>
<tr>
<td>W.G. Zhao and L.N. Wang</td>
<td></td>
</tr>
<tr>
<td>Camera Calibration Method Based on Vanishing Point</td>
<td>3719</td>
</tr>
<tr>
<td>W.G. Li and S.J. Duan</td>
<td></td>
</tr>
<tr>
<td>Stability and Bifurcation Analysis in a Stage-Structured Predator-Prey Model with Delay</td>
<td>3723</td>
</tr>
<tr>
<td>H.Y. Wang and H.M. Wang</td>
<td></td>
</tr>
<tr>
<td>Application Research of Neural Expert System on Tree Growth Model</td>
<td>3728</td>
</tr>
<tr>
<td>W.Q. Zhang</td>
<td></td>
</tr>
<tr>
<td>Improving and Perfecting Project Contract Management by Synergy Management Mechanism</td>
<td>3732</td>
</tr>
<tr>
<td>S.G. Zhang, H.H. An and Y.W. Zhang</td>
<td></td>
</tr>
<tr>
<td>A New Variable Step Size LMS Adaptive Filtering Algorithm and its Simulations</td>
<td>3736</td>
</tr>
<tr>
<td>X.L. Wu, Z.Z. Tan and L. Gao</td>
<td></td>
</tr>
<tr>
<td>Optimal Sampling Schemes for Monitoring Large-Area Crop Rotation</td>
<td>3740</td>
</tr>
<tr>
<td>L. Sun and Z.S. Zhu</td>
<td></td>
</tr>
<tr>
<td>Medical Image Interpolation Algorithm Based on the Organization of Correlation</td>
<td>3744</td>
</tr>
<tr>
<td>Y. Zhou and J.X. Chen</td>
<td></td>
</tr>
<tr>
<td>A New Medical Image Segmentation Method Based on Chan-Vese Model</td>
<td>3750</td>
</tr>
<tr>
<td>Y.Z. Ma and J.X. Chen</td>
<td></td>
</tr>
<tr>
<td>The Design of a Filter System for ECG Signal</td>
<td>3757</td>
</tr>
<tr>
<td>Y. Peng and Z.G. Qin</td>
<td></td>
</tr>
<tr>
<td>Image Characteristics Indexing Based on X-Tree</td>
<td>3761</td>
</tr>
<tr>
<td>R.H. Gao and H.R. Wu</td>
<td></td>
</tr>
<tr>
<td>Empirical Analysis on Signed Tax Treaty's Influence on the China's ODI</td>
<td>3765</td>
</tr>
<tr>
<td>Z.T. Wang and N. Wang</td>
<td></td>
</tr>
<tr>
<td>Research on Image Reconstruction Algorithm ICT Based</td>
<td>3769</td>
</tr>
<tr>
<td>S.G. Wang and G.X. Wu</td>
<td></td>
</tr>
<tr>
<td>Real-Time Image Distortion Correction System Based on Improved Bilinear Interpolation Algorithm</td>
<td>3773</td>
</tr>
<tr>
<td>W. Guo, C. Zhang and Y.R. Zheng</td>
<td></td>
</tr>
<tr>
<td>A Fast Reweighted Alternating Direction Method for Wideband Spectrum Sensing</td>
<td>3777</td>
</tr>
<tr>
<td>An Ontology Construction Method for Knowledge Organization in Interdisciplines - Taking “Discipline of Computer Science and Technology” as an Example</td>
<td>3781</td>
</tr>
<tr>
<td>Y. Zheng and S. Ying</td>
<td></td>
</tr>
<tr>
<td>Research of Equalization Technology Based on Matlab</td>
<td>3786</td>
</tr>
<tr>
<td>W.B. Wang, D.Y. Liu and Y.Q. Yao</td>
<td></td>
</tr>
<tr>
<td>Based on the Research of Halcon Vehicle Identification Technology</td>
<td>3790</td>
</tr>
<tr>
<td>Y.X. Zhang, W.Z. Tang and Y.P. Wang</td>
<td></td>
</tr>
<tr>
<td>Research on Frame Synchronization of OFDM System</td>
<td>3794</td>
</tr>
<tr>
<td>W.B. Wang, D.Y. Liu and Y.Q. Yao</td>
<td></td>
</tr>
<tr>
<td>Research on Depth Information Estimation for Video Objects</td>
<td>3797</td>
</tr>
<tr>
<td>W.B. Wang, D.Y. Liu and Y.Q. Yao</td>
<td></td>
</tr>
<tr>
<td>The Implement of B-Ultrasonic Image Acquisition Based on Camera Interface</td>
<td>3801</td>
</tr>
<tr>
<td>X.M. Gao</td>
<td></td>
</tr>
<tr>
<td>The Character Recognition of Vehicle's License Plate Based on BP Neural Networks</td>
<td>3805</td>
</tr>
<tr>
<td>W.B. Liu and T. Wang</td>
<td></td>
</tr>
<tr>
<td>Design and Implementation of Actual Cost Calculation Module in Forest Industry Cost-Management System</td>
<td>3809</td>
</tr>
<tr>
<td>G.Y. Wang, L.W. Zhang and J. Zhang</td>
<td></td>
</tr>
<tr>
<td>An Non-Contact Speech Enhancement Algorithm Based on Lifting Scheme</td>
<td>3813</td>
</tr>
<tr>
<td>Title</td>
<td>Page</td>
</tr>
<tr>
<td>----------------------------------------------------------------------</td>
<td>------</td>
</tr>
<tr>
<td>Video Segmentation of Multiresolution Dynamic Spatiotemporal Model Based on Quaternion Wavelet Transform W.H. Hu and L. Gu</td>
<td>3822</td>
</tr>
<tr>
<td>A Quantitative Method for Differentiating Malignant and Benign Pulmonary Nodules Y. Zhao, S.D. Nie, J. Wu and Y.J. Wang</td>
<td>3830</td>
</tr>
<tr>
<td>A New Error-Fitting Inversion Method for 2-D NMR Spectrum X.L. Zhou and S.D. Nie</td>
<td>3835</td>
</tr>
<tr>
<td>New Model with Spring and Simulation of Flexible Manipulator Y. Tian, J.H. Qian, Q.S. Liu and J. Yuan</td>
<td>3840</td>
</tr>
<tr>
<td>Conjugate ESPRIT for MIMO Radar without Using Non-Circular Signals J.F. Li, W.Y. Chen and X.F. Zhang</td>
<td>3850</td>
</tr>
<tr>
<td>Monitoring on Mode Selection for Technology Transfer Based on Regional Sustainable Development X.Z. Feng and J.Q. Liu</td>
<td>3864</td>
</tr>
<tr>
<td>Parametric Foot Trajectory Planning for a Hexapod Robot M.H. Li, M.L. Zhang and J.H. Zhang</td>
<td>3868</td>
</tr>
<tr>
<td>Comparing Study on Approaches of Identifying Indicators' Benchmark for Sustainable Development X.Z. Feng and M. Li</td>
<td>3874</td>
</tr>
<tr>
<td>A Motion Edge Extraction Method under the Condition of Camera Swing X.Q. Wu, X. Long and X. Yang</td>
<td>3878</td>
</tr>
<tr>
<td>Experiment and Analysis System without Modulation Locked Fiber Grating System H.B. Wang</td>
<td>3886</td>
</tr>
<tr>
<td>A Novel Method to Automatically Generate Depth Maps Based on Trace Points T.Q. Zhao, X.Z. Sang, Y.D. Liu, C.X. Yu, D.X. Xu, X.B. Yu and G.Z. Shi</td>
<td>3890</td>
</tr>
<tr>
<td>The Application of Fuzzy PID Controller in Wrecker Uprighting System C.X. Lv, W.G. Zhang and X. Li</td>
<td>3895</td>
</tr>
<tr>
<td>Effect and Control of Pendular Motion of Abandoned Satellite on Tether Drag System G.W. Zhao, B. Tang, L. Sun and X.M. Zhang</td>
<td>3900</td>
</tr>
<tr>
<td>Auto-Stereoscopic 3D Video Conversation System Based on an Improved Eye Tracking Method C.Y. Jia, Z.H. Gao, X.B. Yu, X.Z. Sang and T.Q. Zhao</td>
<td>3907</td>
</tr>
<tr>
<td>DFIG Based Wind Power Generation System RSC Controller Design W. Wang and Y.M. Chu</td>
<td>3911</td>
</tr>
<tr>
<td>Attitude Control for Ducted Fan UAV Based on Sliding Mode Adaptive Algorithm X.L. Ren, C.H. Wang and G.X. Yi</td>
<td>3915</td>
</tr>
<tr>
<td>Study on Constant Water Temperature Solar Water Tank and Temperature Button Research Controlled by Single-Chip Microcomputer S. Li</td>
<td>3919</td>
</tr>
<tr>
<td>Fasteners State Detection System Based on Wireless Data Transfer Module J.J. Zhao, X.B. Zhao, X.H. Li, B. Zhang, B. Wang and W. Zhang</td>
<td>3924</td>
</tr>
<tr>
<td>A Fast and High Efficiency Carrier Offset Estimator for OFDM D.F. Zhou and Y.F. Wang</td>
<td>3928</td>
</tr>
<tr>
<td>Analysis on the Host System for HZS150 Type Mixing Station H. Gao</td>
<td>3934</td>
</tr>
<tr>
<td>Title</td>
<td>Page</td>
</tr>
<tr>
<td>----------------------------------------------------------------------</td>
<td>------</td>
</tr>
<tr>
<td>Cophase Power Supply Control Technology in the Application of the Electric Traction Locomotive</td>
<td>3938</td>
</tr>
<tr>
<td>A Novel Method for Equal and Unequal Circle Packing Problem</td>
<td>3942</td>
</tr>
<tr>
<td>GPS Precision Orbit Determination from Combined Ground and Space-Borne Data</td>
<td>3946</td>
</tr>
<tr>
<td>Optimization Approach for Evacuation Route of Railway Freight Transportation Based on MMAS</td>
<td>3950</td>
</tr>
<tr>
<td>An Application of RFID Technology in Traffic Congestion Management</td>
<td>3954</td>
</tr>
<tr>
<td>Safety Assessment Method for Equipment of Urban Rail Transit Network Operation</td>
<td>3958</td>
</tr>
<tr>
<td>The Research of Flight Collision Risk Based on Random Factors</td>
<td>3964</td>
</tr>
<tr>
<td>The Simulation of Rusty Phenomenon Based on Image Texture Feature</td>
<td>3972</td>
</tr>
<tr>
<td>Analysis and Evaluation on NBTI-Induced Circuit Aging</td>
<td>3976</td>
</tr>
<tr>
<td>A Logical System of Metaphor Understanding within Context</td>
<td>3983</td>
</tr>
<tr>
<td>ICI Cancellation in OFDM Systems by Frequency Offset Reduction</td>
<td>3987</td>
</tr>
<tr>
<td>Diagnosis of Nuclear Power Plant Based on Probabilistic Neural Network</td>
<td>3992</td>
</tr>
<tr>
<td>Saturation Model and Phase Recovering for Phase Measuring Profilometry</td>
<td>3996</td>
</tr>
<tr>
<td>Stepped Frequency Radar Target Recognition Using Locality Preserving Projections</td>
<td>4000</td>
</tr>
<tr>
<td>Effects of Reynolds Number on Vortex Structure Evolution in a Square Cavity with Two Opposite Moving Lids</td>
<td>4004</td>
</tr>
<tr>
<td>Study on the Defect Classification Model</td>
<td>4008</td>
</tr>
<tr>
<td>Analysis and Application of Multi-Stage Fracture Stimulation in Yanchang Oilfield</td>
<td>4012</td>
</tr>
<tr>
<td>Study of Chongqing-Sinkiang-Europe International Railway Logistics Process Based on Supply Chain Management</td>
<td>4016</td>
</tr>
<tr>
<td>Air-Transportation Networks and the Spatial Spreading of Infectious Diseases</td>
<td>4020</td>
</tr>
<tr>
<td>Stress-Seepage Fully Coupling Model for High Arch Dam</td>
<td>4025</td>
</tr>
<tr>
<td>Temperature Drift Compensation Based on Artificial Fish Swarm Algorithm for Quartz Flexible Accelerometer</td>
<td>4030</td>
</tr>
<tr>
<td>RFID-Based Card Reader Design</td>
<td>4035</td>
</tr>
<tr>
<td>Design of Temperature Measurement System Based on Microcontroller</td>
<td>4039</td>
</tr>
<tr>
<td>Research on the Mechanical Head of Advanced Intelligent Robot</td>
<td>4043</td>
</tr>
<tr>
<td>Design of Control System for Monitoring Camera Cleaning Robot</td>
<td>4047</td>
</tr>
<tr>
<td>The Study on the Design Ability with Information Technology</td>
<td>4052</td>
</tr>
</tbody>
</table>
The Study on Small Enterprise Innovation
L.M. Ling and X.P. Liu  4056

The Research on the Multiple Perspectives Analysis of Study Object
L.M. Ling and X.P. Liu  4060

3D Multi-Touch Screen Based on Pressure Sensor
X. Guo  4064

Application of IMC Control for Rotor Side Converter of DFIG WPGS
Z. Wu  4068

A Low-Power Ultra-Light Small and Medium Size Acoustic Wave Touch Screen
X. Hao and H. Kui  4072

Prediction Model of Concrete Dam Deformation Based on Adaptive Unscented Kalman Filter and BP Neural Network
L.H. Li, S.J. Peng, Z.X. Jiang and B.W. Wei  4076

The Industrial Tank Level Monitoring System Design
J. Song, H. Wang, Z. Zhang, M.X. Zhai and Y.D. Wang  4080

Prediction for Burned Area of Forest Fires Based on SVM Model
D.W. Xie and S.L. Shi  4084

Numerical Simulation of Black-Scholes Model by Finite Difference Method
L.L. Dong, L. Xue, L.W. Lin, T. Chen and M.H. Wu  4090

Controlling of the Pollution Based on a Prediction Model
J.M. Yang and X.H. Zhao  4094

Dynamics Analysis and Control Strategy Simulation of Lower Extremity of Power Assist Robot
X.J. Li, X.W. Mao, L. He and X.R. Wang  4098

The Optimization for PID Controller Parameters Based on Genetic Algorithm
X.J. Niu  4102

Study on Nonlinear Problem of Active Noise Control System for Power Transformers
B. Zhang, G.X. Wu, S.W. Li, L.M. Ying and H. Peng  4106

Automatic Control System Fault Image Recognition Technology
Z.G. Yang and T.F. Cai  4111

Optimization Control for Logistics and Transport with Constraints in Returns
H. Lu  4115

The Application of Computer Vision in Cultural Production Innovation
X. Zhu  4119

Research on the Bearing Capacity of High-Strength Steel Tubular H-Joints in High-Voltage Transmission Lines
Y. Xu  4123

Energy Saving Design Method for Large Weak Electronic Circuit
B. Yu, L. Song and Z.M. Wu  4127

A Method for Components’ Damage Detection Based on Optoelectronics Imaging Technology
J. Wang  4131

An Analysis on the Effect of External Shock Loads on Building Structure Vibration
J. Wan  4135

An Accurate Prediction Method for Budgets of Large Construction Project
L. Jiang and J. Du  4139

A Fabric Simulation Optimization Method Based on Intelligent 3D Vision Technology
C. Shen  4143

On Piston Rod System Operation Analysis and Piston Structure Optimization Research
S.L. Hu  4147

Image Identification Based on the Compound Model of Wavelet Transform and RBF Neural Networks

Designing Parameters of Ion-Implanted Channel Waveguide Using Beam Propagation Method
X.Z. Liu, F. Lu, X.M. Wu and Y. Fu  4156
Multi-Valued Decision Diagram Based Reliability Analysis of Demand-Based Warm Standby Systems with Imperfect Fault Coverage
R. Peng, Q.Q. Zhai, L. Shi and J. Yang 4161

Propagation and Responses of EMP on Transmission-Line Networks
X. Zhou, L.S. Fan, Q.X. Yang and Z. Yang 4167

Photon Correlator Implemented by Field Programmable Gate Array
X.G. Qi, Y.M. Zhang, Q.H. Li and N. Wang 4171

A Novel Approach for Detectioning, Segmenting and Classifying Shadow Image Based on Rough Sets
T.M. Chen, H.S. He and X.C. Jiang 4175

Simulation of Droplets Formation in Co-Flowing Microfluidic Channels
Z.F. Li, L. Zhang, X. Luo, X.J. Wang and Y. Yang 4180

Measurement on Light Yield of Liquid Scintillator Based on P-Xylene
L.P. He, X. Luo, F. Yu, Z.J. Wei, D.X. Liu, Z. Lin and L. Xin 4185

Buckling Stability Analysis of Micro Spring
Z. Wang, L. Sui and G.C. Shi 4188

Point Clouds Registration by Using Depth Images
W.B. Qiao, M. Guo and J.J. Liu 4193

Modal Analysis of Machine Tool Spindle under Uncertainty
W. Dou, X.C. He, S.W. Yuan and S. Zhou 4197

Research on Volumetric Error Measurement, Modeling and Compensation for NC Machine Tools
H.X. Zhang and Q.J. Guo 4202

Research on Forming Theory of Arc Transition Edge Surface of Indexable Insert
M.J. Peng, M.M. Wang, B. Yao and Y. Song 4206

The A Study on Cutting Force in Process by CBN Quill Design
S.H. Oh 4210

Study on the Characteristics of AFPM Slotless Generator
S.H. Oh and B.M. So 4215

The Development of a Drop Test Device for the Performance Test of the Landing Gear of an Unmanned Aircraft
S.H. Oh 4219

An Image-Based Processing of Wool Fiber Fineness Improved Measurement Methods
W. Guo, S.H. Zhao and X.B. Wang 4223

Micromouse Solve Maze Based on Flood-Fill Algorithm
H.M. Zhang, L.S. Peh and Y.H. Wang 4227

Sensing Characteristics of Long-Period Grating Inscribed in Grapefruit Photonic Crystal Fiber by Femtosecond Laser
Y. Wei and Y.J. Du 4231

Detection of the Protein Content of Ningxia Tan Sheep Using Hyperspectral Reflectance Imaging
S.L. Wang, G.S. Liu, X.F. Li and R.M. Luo 4235

University Campus Safety Based on the AHP-Fuzzy Evaluation
W. Wei, D.G. Long and L. Chen 4239

Research Process of Remanufacturing Standard System

The Application of RAKE Receiving Technology in the Underwater SS Communication
Y.H. Zhu and Z.H. Deng 4248

A Derivation of Ion Energy Distribution Function for Dual Frequencies Capacitively Coupled Plasma

FBG Sensing Demodulation Technology Based on Acousto-Optic Tunable Filter
X.J. Li, Z.G. Chen, Z.Y. Xie, X.B. Liang and X.L. Zhao 4257

Unfragile Guaranteed-Cost Control of Uncertain State-Delay Sampling System
Y.P. Li, C.P. Ai and X.L. Wang 4261

Application of Chirp-z Transform in Doppler Weather Radar
J. Zhu, X.J. Lu and X. Liu 4265
<table>
<thead>
<tr>
<th>Title</th>
<th>Authors</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pollutant Governance Management Based on the PM2.5 Concentration Decay Model</td>
<td>Y. Yuan, W. Han and Y.C. Wei</td>
<td>4273</td>
</tr>
<tr>
<td>Microtubules Dynamics Regulates Mesocotyl Elongation in Rice</td>
<td>L. Li, C. Wang, Q. Liang, D.R. Ma and W.F. Chen</td>
<td>4277</td>
</tr>
<tr>
<td>Measurement System of Decay Time for Liquid Scintillator</td>
<td>L.P. He, Y. Fang, S.F. Chen, X. Luo, Z.J. Wei, D.X. Liu, L. Zhang and X. Li</td>
<td>4285</td>
</tr>
<tr>
<td>Environmental Impact Evaluation on Ninety Thousand Layer Farming Project</td>
<td>J.S. Yang and H.Y. Qiu</td>
<td>4287</td>
</tr>
<tr>
<td>Exploration on Bilingual Teaching Reformation for Introduction to Computer</td>
<td>P. Guo and Y. Huang</td>
<td>4290</td>
</tr>
<tr>
<td>A Research of Portable GPS Design</td>
<td>J.X. Cheng, M.Y. Zhou, M.M. Zhang and J. Wu</td>
<td>4302</td>
</tr>
<tr>
<td>C\textgreek{l} for Exponentially Distributed Products</td>
<td>A.J. Yan, S.Y. Liu and X.J. Dong</td>
<td>4309</td>
</tr>
<tr>
<td>Computer Simulation of the Inclusion Removal Behavior in the Tundish and Model Evaluation</td>
<td>Y. Wang</td>
<td>4314</td>
</tr>
<tr>
<td>A Parallel Communication Power Supply Based on UC3846</td>
<td>Y.D. Wan, P. Liu, J. Lu and X.H. Bao</td>
<td>4323</td>
</tr>
<tr>
<td>The Simulation of a Kind of X-Type Multi-Layer Fabric</td>
<td>L. Gao, X.D. Sun and Y.H. Yang</td>
<td>4328</td>
</tr>
<tr>
<td>Development of a Digitized Medium Frequency Electronic Therapeutic Instrument</td>
<td>L.Q. Jiang and J.S. Jin</td>
<td>4333</td>
</tr>
<tr>
<td>The Circular Seal Identification Method Based on Average Relative Error</td>
<td>J.S. Liang, X.F. Tong and Z.B. Yuan</td>
<td>4338</td>
</tr>
<tr>
<td>The Intuitionistic Fuzzy S-Rough Sets Model and Dynamic Transfer Degree</td>
<td>J.H. Hu, G.D. Gu and F.X. Liu</td>
<td>4352</td>
</tr>
<tr>
<td>Performance Enhancement of 16 Channels Back Haul DWDM OADM Ring Network Using Electronic Dispersion Compensation</td>
<td>A. Sharma, V. Sharma, D. Kaur and H.P. Singh</td>
<td>4357</td>
</tr>
<tr>
<td>Business Intelligence: Relationship between Capabilities, Success and Decision Environment</td>
<td>S. Kokin and T.N. Wang</td>
<td>4361</td>
</tr>
<tr>
<td>Wave Gate Tracking Method Based on Locus Fitting for UAV Following the Moving Target</td>
<td>H.Y. Dong and X. Wang</td>
<td>4366</td>
</tr>
<tr>
<td>A Metadata Management Model for Massive Data Engineering in Oilfield</td>
<td>H.P. Xiong, W.W. Liu and C.Y. Zhao</td>
<td>4372</td>
</tr>
<tr>
<td>Automation of Producing Explosives for Mining Industry</td>
<td>E. Damdinsuren</td>
<td>4378</td>
</tr>
<tr>
<td>Design of the Data Acquisition System Based on FPGA</td>
<td>Y.B. Yang, X.H. Han and L.H. Lei</td>
<td>4382</td>
</tr>
</tbody>
</table>
Scientific Features of Top Machine
Y. Bai, F.M. Zhang, W.F. Che, Y. Li and C. Niu 4387

Smart Phone 3D Interface Control the Intelligent Model of Solar House
Z. Stanković, G. Radić and M. Ramićić 4392

An Orientation Method for Ultrasonic Linear Array Signals and its Application
Q. Xie, F. Liao and W.T. Hu 4396

Neighborhood Estimated Local Binary Patterns for Texture Classification
K.C. Song and Y.H. Yan 4401

An Improved Support Vector Machine for Credit Scoring
B. Tang and S.B. Qiu 4407

Natural Scene Recognition Based on Graph Edit Distance
Q.R. Jiang, J.C. Song and Z. Wu 4411

On the Improvement of Hydraulic Conductivity Function in Van Genuchten-Mualem Model
Y.M. Park, S. Oh, I. Jin and K.K. Oh 4417

Vector Control System of Seven-Phase Induction Motor Based on DSP
J.L. Guo, Z.C. Qiu, J. Xiao and P. Luo 4421

Research on the Mass Event Simulation Based on Emotional Contagion Model
Q.G. Gong, D.Q. Wang and K. Yang 4426

Application of the Newton-Raphson Method in a Voice Localization System
M.Y. Tong, D.J. Xu, J.L. Shi and Y. Shi 4435

The Method of Calculating Polluted Insulator's Flashover Voltage Based on ANN
Y. Shi, G. Hu, J.F. Zhu and Y. Chen 4439

Fault Diagnosis Expert System of Turbine Generator Sets Based on Rule Reasoning and Case Reasoning
C.F. Yan, H.B. Wang, L.L. Zhou and Z.X. Li 4443

The Circuit Design of the DC/DC Stage of Aviation Static Converter
H. Wang, R.B. Feng and X.L. Zhao 4449

The Research on Financial Network Simulation Based on Agent
Y.B. Zhu and L. Yan 4454

Electro Optic Conversion Methods in Intra-Body Communication
J. Li and S. Zhang 4458

Design of Apparatus in Z-Pinch Plasma Neutron Sources for Fusion-Fission Breeders
J. Li, K. Wang and S.Q. Wang 4462

Research in Optical Image Differential Based on Digital Filter
H. Dong 4466

Modified Auxiliary Differential Equation Method and Exact Solutions Generalized Schrodinger
L. Tian and Y.P. Qin 4470

The Multiple Exact Solutions for the Variable Coefficient KdV Equation
L. Tian and J.Q. Miao 4474

SOPC-Based Multi-Rate Data Acquisition System
Y. Li and C.Y. Zou 4478

Application Research of the Total Expectation Formula in Stochastic Model
X.Q. Yun 4482

Seasonal Variations of the Regular Indices of the Surface Water in the Taizi River
X.J. Hu, L.Q. Sun, X.Y. Song, W.J. Sun and R.J. Liang 4486

CFD Transonic Trajectory Predictions of Three-Store Ripple Release Using Chimera Method
K. Xi and C. Yan 4490

Optimal Control of Flight Delays Allocation at Airport
Z.W. Xing, J. Yu and H.Y. Lu 4494

Turing Computability of the Solution Operator of the Cauchy Problem for Nonlinear Davey-Stewartson Equation
D.C. Lu, W.B. Yan and L. Wu 4499

A Problem of English Document Fragments Splicing and Reconstructing Based on Fuzzy Pattern Recognition
J.H. Li, R.X. Li and Y. Ding 4504
<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Public Key Cryptosystem and Signature Scheme over the Ring Z[^3√2]</td>
<td>4509</td>
</tr>
<tr>
<td>X.D. Dong and X.P. Jing</td>
<td></td>
</tr>
<tr>
<td>The Construction of Disjoint Multiple-Element Systems with v Order</td>
<td>4513</td>
</tr>
<tr>
<td>Z.D. Xu, X.Y. Li and W.X. Chou</td>
<td></td>
</tr>
<tr>
<td>Real-Time Laser Ranging System Design of High Precision and Multi-Frequency Modulation</td>
<td>4517</td>
</tr>
<tr>
<td>Y.X. Liu</td>
<td></td>
</tr>
<tr>
<td>Research on Millimeter Wave Communication at 60GHz</td>
<td>4521</td>
</tr>
<tr>
<td>Y.X. Liu</td>
<td></td>
</tr>
<tr>
<td>Application Study on Distributed Predictive Control of Beer Fermentation Temperature</td>
<td>4525</td>
</tr>
<tr>
<td>S.J. Liang and W.C. Chan</td>
<td></td>
</tr>
<tr>
<td>Automatic Matching for Frame Images of Area Remote Sensing</td>
<td>4529</td>
</tr>
<tr>
<td>Y.C. Li, S. Yang and S.B. Zhu</td>
<td></td>
</tr>
<tr>
<td>Design and Implementation of Embedded Video Surveillance System Based on Human Detection</td>
<td>4535</td>
</tr>
<tr>
<td>J. Li, Y.F. Bai and J.L. He</td>
<td></td>
</tr>
<tr>
<td>The Researches and Applications Based on Video Statistical Analysis of Average Population Density Estimation Methods</td>
<td>4539</td>
</tr>
<tr>
<td>B.G. Zheng, B. Xu and Z.J. Shi</td>
<td></td>
</tr>
<tr>
<td>A Service-Oriented Spatio-Temporal Data Model of the Marine Environment</td>
<td>4543</td>
</tr>
<tr>
<td>Z. Li and Y.X. Feng</td>
<td></td>
</tr>
<tr>
<td>A Safety Evaluation Method of Military Aircraft Based on Projection Pursuit Method</td>
<td>4547</td>
</tr>
<tr>
<td>H.Z. Li, Y.C. Dong, J. Du, B.H. Lv, L. Gong and P. Chen</td>
<td></td>
</tr>
<tr>
<td>A High Resolution Single Slope ADC with Low Operation Speed for Uncooled Infrared Focal Plane Array</td>
<td>4551</td>
</tr>
<tr>
<td>L.C. Que, L.H. Wei, J. Lv and Y.D. Jiang</td>
<td></td>
</tr>
<tr>
<td>A 4-Bit 5 GS/s Current Steering DAC Integrated Circuit</td>
<td>4555</td>
</tr>
<tr>
<td>W.Y. Li and T.X. Jiang</td>
<td></td>
</tr>
<tr>
<td>Generation and Circuit Implementation of Multi-Scroll Chaotic Attractors with Controllable Direction</td>
<td>4559</td>
</tr>
<tr>
<td>X.W. Luo and C.H. Wang</td>
<td></td>
</tr>
<tr>
<td>Research on Sensitive Ports under the Action of Different ESD Initial Injected Voltage of Typical High-Frequency Low-Noise Silicon Bipolar Transistors</td>
<td>4563</td>
</tr>
<tr>
<td>K.N. Dong, X.J. Zhang and J. Yang</td>
<td></td>
</tr>
<tr>
<td>Research on Indirect Charging Radio Frequency Explosive Magnetic Flux Compression Generator</td>
<td>4567</td>
</tr>
<tr>
<td>H.M. Li, J.Y. Wang, L.K. Xing and T.X. Yang</td>
<td></td>
</tr>
<tr>
<td>A 8GHz Differential Comparator for Ultra High Speed ADC in 90nm CMOS Technology</td>
<td>4572</td>
</tr>
<tr>
<td>Z.Y. Zhu, H. Hong and S.L. Li</td>
<td></td>
</tr>
<tr>
<td>Design of a Low Power Multi-Channel 10Bit SAR ADC</td>
<td>4576</td>
</tr>
<tr>
<td>H. Hong, S.L. Li and S. Liu</td>
<td></td>
</tr>
<tr>
<td>A Low Power SiGe-BiCMOS LNA for COMPASS Applications</td>
<td>4580</td>
</tr>
<tr>
<td>B.L. Yu, J. Li and W.Y. Li</td>
<td></td>
</tr>
<tr>
<td>A 6-Bit 5GS/s Pseudo-Thermometer Segmented CMOS DAC</td>
<td>4585</td>
</tr>
<tr>
<td>W.Y. Li and Y.J. Song</td>
<td></td>
</tr>
<tr>
<td>A Temperature Compensation Circuit within Constant Current Charging Cycle</td>
<td>4589</td>
</tr>
<tr>
<td>Y.B. Liao, Y.H. Wang and M. Yang</td>
<td></td>
</tr>
<tr>
<td>Numerical Simulation and Experimental Study of Inner Flow Field in Marine Centrifugal Pump</td>
<td>4593</td>
</tr>
<tr>
<td>X.X. Chen, G.Y. Wang, K. Wang, M.G. Tan and L. Dong</td>
<td></td>
</tr>
<tr>
<td>Patent Analysis of the Rare Earth Extracting Separation Technology</td>
<td>4597</td>
</tr>
<tr>
<td>H.L. Li and Y.Q. Zhao</td>
<td></td>
</tr>
<tr>
<td>Research on the Transformation of Ba-Construction in Patent Machine Translation</td>
<td>4601</td>
</tr>
<tr>
<td>Research on Sentence Segmentation with Conjunctions in Patent Machine Translation</td>
<td>4605</td>
</tr>
<tr>
<td>L.F. Xu, Y. Zhu, L.J. Yang and Y.H. Jin</td>
<td></td>
</tr>
</tbody>
</table>
D.M. Zhang, Y. Zhu and Y.H. Jin 4610

H.Z. Li, H. Zhou and Y.H. Jin 4617