

Table of Contents

Preface	v
Organizing Committees	vii
Session 1	
Risk Assessment of the Mine Environment Information Based on Multi-Sensor Information Fusion <i>SONG Qiang, WANG Ai-min and SHI Hui-chao</i>	1
MRED: An Improved Nonlinear RED Algorithm <i>Yanping Zhang, Jun Ma, Yongcheng Wang and Chao Xu</i>	6
Singularity Detection of ECU Speed Based on Lifting Wavelet <i>Jianping Zhou</i>	12
Comparisons of Two Detectors for a Tradeoff between Complexity and Performance in MIMO-OFDM Systems <i>Jin Ren and Seokhyun Yoon</i>	16
A More Realistic Highway Traffic Simulation Model Considering the Following Car Horning <i>WangTao</i>	23
Web Service AJAX Intelligent Engine Based on XFire and DWR Framework <i>QU Zhijian, LIU Mingguang, WANG Jian and LIU Li</i>	31
The Design and Implementation of Ducational Resource Management in Colleges and Universities with Active Directory <i>Yin Guangli</i>	36
A High-performance Folded Cascode Amplifier <i>Zhang Kun, Wu Di and Liu Zhangfa</i>	41
Architecture Design for Drm System of Digital Television <i>Dayun Lin and Xingshu Chen</i>	45
Satellite's Orbital Dynamic and Stable Regions near Equilibrium Points of Asteroid <i>CuiHutao, ZhangZhenjiang and YuMeng</i>	53
Session 2	
Reliability Analysis and Safety Evaluation of an Analog Output Module Based on FMEA and FTA <i>Yi Zhang and Yan Bai</i>	60
Viscosity Solutions with Asymptotic Behavior of Hessian Quotient Equations <i>Limei Dai</i>	65
A Method Based on Moment Invariants and Sparse Representation for 3D Face Recognition <i>Chao Zhang and Yanning Zhang</i>	72
Layered MIML Structure Used in Complicated System <i>Jing Guo, Wei Chen and Haohui Huang</i>	79
Design of a Simple 3-Lead ECG Acquisition System Based on MSP430F149	86

Peng Wang and Zhigang Lv

BP Algorithm of ANN Applied in Temperature Control Tests with MATLAB 92
Yao Lei, Zhijun Xu and Wenbo Tang

Training Simulator System of Artillery Radar Azimuth Calibration Based on Scene Simulation 99
Xianming Shan, Zhaochun Tian and Hongjie Zhou

Firing Calibration Decision System of Artillery Reconnaissance Radar Based on Data Fusion 103
Xianming Shan, Zhihong Zhao and Hongsen Xia

Research of Dynamic Parameter Identification of LuGre Model Based on Weights Boundary Neural Network 107
Huo Ai-qing, He Yu-yao , Ruan Yan and Tang Nan

QoS Multi-users Packet Scheduling Algorithm in IEEE 802.16e System 112
Yang Shuqing and Peng Jinye

Session 3

The Research of Community Risk Monitoring System Based On Multi-Agent and Data Mining 117
Lizhen Liu, Hai Chen, Maohong Zhang and Lei Chen

Application of Adaptive Spectral-line Enhancer in Bioradar 121
FU Rui-ling and LI Hongxia

Urban Arterial Road Traffic Status Identification Based on Data Fusion 126
Jiao Zou, Xiaoxu Bei and Jian Wu

Data Fusion of Distributed D-S Evidence Theory Based on Predicted Reliability 131
Liu Ping, Zhang Lingxiao and Yang Xinfeng

Research of Data Mining of Association Pattern Pairs in Multidimensional Structured Database 136
Zhang Jing, Huang Xiantong and Yang Xinfeng

Strategies for Incident Assignment and Escalation Based on BDIM 141
Chaojie Cao and Zhiqiang Zhan

3D Ear Recognition Using SIFT Keypoint Matching 146
Xin Dong and Yin Guo

Load's 2-Degree of Freedom Swing Angle Model and Dynamic Simulation for Overhead Crane or Gantry Crane 152
Bin Zhong, Renjun Zhan and Shaohua Wang

Improved Differential Evolution Algorithm for Solving WTA Problem1 158
Song Wei-dong, Zhao Cheng-wang and Huo Jun-xiu

Runtime Prediction of Armored Vehicle Engine Based on Neural Network 162
Chunliang Chen, Yanhua cao, Hongbing Ye and Yongjun Song

Session 4

The Variance of Measurement of Sound Absorption of Material in the Underwater Reverberation Chamber 167

<i>Yang Daheng and Li Qi</i>	
Unknown input extended Kalman filter-based fault diagnosis for satellite actuator <i>Wang Zhi and Shi Jun</i>	172
Application of Linearization Clan in Fan Model <i>Lijuan Xing and Shizhong Yang</i>	177
Enthalpy Control for Central Air-conditioning Systems <i>Lijuan Xing and Shizhong Yang</i>	181
Research on Human Resource Management in the Process of Knowledge Transfer across Borders <i>YU Peng and YANG Yan-ying</i>	185
Research on Sustainable Development of China's Overseas Trade in the Low-carbon Economic Circumstances <i>YU Peng and WANG Hong-mei</i>	189
Literature Review on Knowledge Transfer within Multinational Company <i>YU Peng and JIANG Ling</i>	193
Variable Structure Control Continuous Traffic flow in Automatic Highway System <i>ZHANG Yong and GUAN Wei</i>	198
Research on Agent-based System of Security and Defense Cooperation <i>Guangping Zhou</i>	203
Author Index	209