Table of Contents

Message from the KESE 2009 Chair ........................................................................................................... ix
Organizing Committee ................................................................................................................................. x
Reviewers .................................................................................................................................................... xi

KESE 2009

Microcosmic Mechanism of the Influence of Investor’s Psychology and Behavior on Stock Price Volatility .......................................................................................................................... 3
  Li Chuang
Study on Investors’ Structure and Feature of China’s Securities Market .................................................. 7
  Wang Li-ping
Research on Sustainable Comprehensive Transportation System Composition Model ................................................................. 11
  Liu Xiao-Jia, Lan Pei-Zhen, and Zheng Gao-zhe
Study for Fluorescence Optical Fiber Temperature Measuring System Based on Labview ................................................... 15
  Guangtao Song, Chen Jin, Ruijin Zhang, and Hongmei He
A Kind of Fluorescent Optical Fiber Temperature Sensor Applied for Cancer Knub ................................................................. 18
  Huiping Zheng, Lin Hao, and Hongmei He
Design Service Level Agreement Based on Dynamic IT .............................................................................. 21
  Gang Chen and Kejin Hu
Analysis of Sentence Ordering Based on Support Vector Machine .......................................................... 25
  Gongfu Peng, Yanxiang He, Ye Tian, Yingsheng Tian, and Weidong Wen
The Study on the Gray Neural Network Model and Its Application in the Prediction ................................. 28
  Wen-tao Peng, Jun Wu, Ying-qing Chen, Xuan Xiao, and Luo Zhong
AHP-Based Investigation and Study on Expectation of Female College Students on Aerobics - Take Henan Province for Example .................................................................31

Shuhe Shao

Application of BP Neural Network Model in Sports Aerobics Performance Evaluation ..........................................................................................................................33

Shuhe Shao

AHP-Based Investigation on Capacity Expectation of Teachers in Secondary Vocational Schools .................................................................................................................36

Anguo Qi, Lifang Qiao, Yichuan Zhang, Yipeng Zhao, and Lianfang Yao

Application of New Information Multi-variable Optimizing Grey Model NMG(1,n,q,r) to the Load-Strain Relation ..........................................................................................39

Weiyue Xiao, Degang Liao, and Youxin Luo

Scaling the Data in Multi-tenant Business Support System .........................................................................................................................................................43

Dong Yuanyuan, Ni Hong, Wang Bingfei, and Liu Lei

The Inverse Problem of Anti-circulant Matrices in Signal Processing ........................................................................................................................................47

Wenling Zhao

The Nonsingularity of FLS r-Circulant Matrices ........................................................................................................47

Wenling Zhao

The Research on a P2P Transcoding System Based on Distributed Farming Computing Architecture ................................................................................................................55

Can Yang, Yuanqiong Chen, and Yilong Shen

Boundedness of Weighted Hardy Space for Commutators of Strongly Singular Convolution Operators .........................................................................................................59

Jiafeng Li and Kai Zhao

The Research and Design on Key Issues for Threads Packages .........................................................................................................................................................63

Wang Chengjun

The Research and Design of Workflow Management System Based on WEB ........................................................................................................................................67

Wang Chengjun

The Research on Real-Time Scheduling Algorithm in Distributed System ........................................................................................................................................71

Wang Chengjun

Research on Evaluation Model of Financial Core Competence of Listed Companies of Equipment Manufacturing ..................................................................................75

Chenghua Shi, Zilai Sun, and Kunjing Dong

Research on the Selection of LNG Carrier Propulsion Systems .........................................................................................................................................................78

Liu Zuancang, Zhan Yulong, and Tan Qimeng

Research on the Attributes of Rational Agent's Internal States .........................................................................................................................................................82

Cheng Xian-qi, Qiu Jian-lin, and Zhu Qian

Research on GA-ANN Based WLAN Indoor Location Method .........................................................................................................................................................86

Ying Sun, Yubin Xu, and Lin Ma

The Implementation of Fuzzy RBF Neural Network on Indoor Location .....................................................................................................................................................90

Ying Sun, Yubin Xu, and Lin Ma
To Facilitate Knowledge Management Using Basic Principles of Knowledge Engineering ..........................................................94
  Xiaohui Yang

Analysis of Linguistic Features of English for Science and Technology .................................................................98
  Jianfeng Wei, Qingdong Wang, and Shibo Xing

An Effective Method to Identify Machine Automatically Generated Paper ..........................................................101
  Jiping Xiong and Tao Huang

The Research on Enterprise Informatization Capability .........................................................................................103
  Hongyu Shao and Wei Guo

Research and Implementation of AHP-Based Method Base - Model Base Application of Hierarchical Model ..................107
  Lan Gan, Xuehu Wang, and Rong Li

A New Algorithm to Predict the Air-Sea Spray Fluxes .........................................................................................111
  Shi Jian, Zhong Zhong, Li Yan, and Ge Shanshan

Research on Web_Based Personal Knowledge Management .............................................................................116
  Dongmei Zhou and Engui He

Research and Implementation of Jetspeed2-Based SSO ......................................................................................120
  Zhenfan Ding, Rong Li, and Xuehu Wang

Idea Evolution and Visualization in Team Creation .............................................................................................124
  Luning Xie and Pengzhu Zhang

Research on the Chaos in Software Requirements .............................................................................................128
  Junwei Ge, Zhi Ge, and Yiqiu Fang

A Novel Frequency Domain Equalization Algorithm for SC-FDE System .........................................................132
  Lijun Sun, Xiangli Wang, and Shouyong Zhang

Face Recognition Based on Wavelet Transform and PCA .......................................................................................136
  Li Xian Wei, Yang Sheng, Wang Qi, and Li Ming

Direct3D Based Multi-level Tufted Carpet Appearance Simulation ........................................................................139
  Chen Guangfeng, Wang Weibin, Jin Zhilei, Xu Yang, and Sun Yize

Spatial Structure Analysis and Simulation of Multi-level Tufted Carpet ................................................................143
  Chen Guangfeng, Wang Weibin, Jin Zhilei, Xu Yang, and Sun Yize

CAN Bus Based Motors Online Monitoring System for Carpet Tufting Machine ..................................................147
  Chen Guangfeng, Jin Zhilei, Wang Weibin, Meng Zhuo, and Sun Zhijun

Bleeding Simulation Based Particle System for Surgical Simulator ...........................................................................151
  Liu Xue-mei, Hao Ai-min, Zhao Qin-ping, and Chen Chun-yan

Study on the Features of Loudspeaker Sound Faults ........................................................................................155
  Hongxing Wang, Zengpu Xu, Congling Zhou, and Yuming Qi

Game Analysis on the Double Principal-Agent Risk in Risk Investment .............................................................159
  Jinting Yang, Zilai Sun, and Yinghui Liu

A Robust Image Watermarking Algorithm Based on Non-uniform Rectangular Partition and SVD .........................163
  KinTak U., ShengDun Hu, Dongxu Qi, and Zesheng Tang