

2018 4th Annual International Conference on Network and Information Systems for Computers (ICNISC 2018)

**Wuhan, China
20 – 22 April 2018**



**IEEE Catalog Number: CFP18B68-POD
ISBN: 978-1-5386-6957-0**

**Copyright © 2018 by the Institute of Electrical and Electronics Engineers, Inc.
All Rights Reserved**

Copyright and Reprint Permissions: Abstracting is permitted with credit to the source. Libraries are permitted to photocopy beyond the limit of U.S. copyright law for private use of patrons those articles in this volume that carry a code at the bottom of the first page, provided the per-copy fee indicated in the code is paid through Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923.

For other copying, reprint or republication permission, write to IEEE Copyrights Manager, IEEE Service Center, 445 Hoes Lane, Piscataway, NJ 08854. All rights reserved.

****** This is a print representation of what appears in the IEEE Digital Library. Some format issues inherent in the e-media version may also appear in this print version.***

IEEE Catalog Number:	CFP18B68-POD
ISBN (Print-On-Demand):	978-1-5386-6957-0
ISBN (Online):	978-1-5386-6956-3

Additional Copies of This Publication Are Available From:

Curran Associates, Inc
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: (845) 758-0400
Fax: (845) 758-2633
E-mail: curran@proceedings.com
Web: www.proceedings.com

CURRAN ASSOCIATES INC.
proceedings
.com

2018 4th Annual International Conference on Network and Information Systems for Computers ICNISC 2018

Table of Contents

Preface	xv
Conference Organization	xvi
Program Committee	xvii
Reviewers	xix
Keynotes	xxii

Computer Network and Security

Review on Intelligent Internal Attacks Detection in VANET	1
<i>Rachael N. Nabwene (Tongji University)</i>	
Point-of-Interest Recommendation Based on Spatial Clustering in LBSN	7
<i>Chang Su (Chongqing University of Posts and Telecommunications), Ning Li (Chongqing University of Posts and Telecommunications), and Xian-Zhong Xie (Chongqing University of Posts and Telecommunications)</i>	
An Efficient Algorithm for Multiple Next-Hops Computation in Link-State Routing Networks	13
<i>Hai-jun Geng (ShanXi University), Yong Wu (ShanXi University), and Ju Zhang (ShanXi University)</i>	
Research on Energy Saving Algorithm Based on Flow Matrix Network	19
<i>Yong Wu (Shanxi University) and Hai-Jun Geng (Shanxi University)</i>	
Research on Intrusion Resistance Measure Method of Space-Based Early Warning System Based on Network Connectivity Entropy	23
<i>Miao-Ben Yang (Aerospace Engineering University) and Xiong Wei (Aerospace Engineering University)</i>	
A Diffserv Model for Video Stream	30
<i>Yang Xu (Shenzhen Polytechnic)</i>	
A Dynamic Detection Technique for XSS Vulnerabilities	34
<i>Xin-Yu Hou (Beijing Institute of Technology), Xiao-Lin Zhao (Beijing Institute of Technology), Mei-Jing Wu (Beijing Institute of Technology), Rui Ma (Beijing Institute of Technology), and Yu-Peng Chen (Beijing Institute of Technology)</i>	

Research of Human-Machine Interaction System for a Humanoid Robot Based on Network Communication .44.	
<i>Lu Zhi-Guo (Northeastern University), Wang Shi-Xiong (Northeastern University), Wang Kai (Northeastern University), and Su Zhuo (Northeastern University)</i>	
Bandwidth Allocation Strategy of Networked Control System under Denial-of-Service Attack .49.....	
<i>Wang Zhi-wen (Lanzhou University of Technology) and Cheng Yang (Lanzhou University of Technology)</i>	
Anomaly Detection in Network Management System Based on Isolation Forest .56.....	
<i>Xiao Chun-Hui (Tsinghua University), Su Chen (Tsinghua University), Bao Cong-Xiao (Tsinghua University), and Li Xing (Tsinghua University)</i>	

Communication and Wireless Systems

Indoor Positioning for Dementia in Smart Homes Based on Wearable Device .61.....	
<i>SU Chun-Fang (Jiangyin Polytechnic College), Fu Li-Chen (National Taiwan University), Jien Yi-Wei (National Taiwan University), and Li Ting-Ying (National Taiwan University)</i>	
Design and Application of Communication Module in Intelligent Temperature Transmitter Based on Freemodbus .66.....	
<i>Du Shi-Lei (Tianjin University of Technology) and Li Wei-Yan (Tianjin Architecture Design Institute)</i>	
A Visible Light Indoor Positioning Algorithm Based on Fingerprint .71.....	
<i>Guo Chen (Nanjing Normal University), Shao Jian-Hua (anjing Normal University), Ke Wei (Nanjing Normal University), and Zhang Chun-Yan (Nanjing Normal University)</i>	
Research on the Application of Visible Optical Communication Technology in Surveying .78.....	
<i>Wen-Ge Sun (China Satellite Maritime Survey and Control Yuanwang No.6)</i>	
A Firefly-Cuckoo Search Algorithm for Optimizing the Beam Patterns of the Random Antenna Arrays .84.....	
<i>Xiao Luo (Jilin University), Yong-Jian Yang (Jilin University), and Qian-Yu Zhou (Jilin University)</i>	
A DOA Tracking Algorithm for Coprime Planar Array via PAST .89.....	
<i>Meng-Jie Zhou (Nanjing University of Aeronautics and Astronautics), Chao Ge (Nanjing University of Aeronautics and Astronautics), Xin-Ping Lin (Nanjing University of Aeronautics and Astronautics), Lang He (Nanjing University of Aeronautics and Astronautics), and Xiao-Fei Zhang (Nanjing University of Aeronautics and Astronautics)</i>	
Analysis of Mutual Coupling in Cross Quasi-Orthogonal Antenna .96.....	
<i>Chen Shuo-Na (Naval University of Engineering), Hui Xie (Naval University of Engineering), Yao Wang (Naval University of Engineering), and Bin Li (Naval University of Engineering)</i>	
Compatibility Design of Tactical Communication Based on OFDM and SC-FDE .101.....	
<i>Li Chang-Ying (Wenhua College)</i>	

The Influence on Medical Activities by Mobile Medical Application .104.....	
<i>Fan Jing (The Fourth Military Medical University), Zhang Ling (The Fourth Military Medical University), Wang Ting (The Fourth Military Medical University), Li Nan-Lin (The Fourth Military Medical University), Lv Yong-Gang (The Fourth Military Medical University), Zhang Ju-Liang (The Fourth Military Medical University), Bian Jie-Fang (The Fourth Military Medical University), and Ling Rui (The Fourth Military Medical University)</i>	

Signal and Informatics Processing

Research on the Optimal Threshold of QR Code Recognition Based on Maximum Likelihood Criterion .107.....	
<i>Wang Xuan (Beijing Institute of Graphic Communication), Cao Peng (Beijing Institute of Graphic Communication), Chen Fang-Fang (Beijing Institute of Graphic Communication), Zhu Jian-Le (Beijing Institute of Graphic Communication), and Huo Pei-Jun (Beijing Institute of Graphic Communication)</i>	
Anomaly Detection for Sleep EEG Signal via Mahalanobis-Taguchi-Gram-Schmidt Method .112.....	
<i>Zai-Hong Zhou (Guangdong Medical University), Rui Zheng (Nanjing University of Aeronautics and Astronautics), Jiu-Fu Liu (Nanjing University of Aeronautics and Astronautics), and Xiao-Bin Ding (Nanjing University of Aeronautics and Astronautics)</i>	
Noncircular Signal DOA Estimation with Reduced Dimension MUSIC for Coprime Linear Array .117.....	
<i>Lang He (Nanjing University of Aeronautics and Astronautics), Xin-Ping Lin (Nanjing University of Aeronautics and Astronautics), Chao Ge (Nanjing University of Aeronautics and Astronautics), Meng-Jie Zhou (Nanjing University of Aeronautics and Astronautics), and Xiao-Fei Zhang (Nanjing University of Aeronautics and Astronautics)</i>	

Image Acquisition and Processing

Research on Image Restoration Algorithm for Blind Deconvolution .122.....	
<i>Yu-Kun Wang (Beijing Institute of Graphic Communication BIGC), Fu-Ping Liu (Beijing Institute of Graphic Communication BIGC), Zhi-Peng Lu (Beijing Institute of Graphic Communication BIGC), Lei Guo (Beijing Institute of Graphic Communication BIGC), Shi-Ke Li (Beijing Institute of Graphic Communication BIGC), and Jian-Ping Pang (Beijing Institute of Graphic Communication BIGC)</i>	
Effective Reversible Information Hiding Based on Block Priority of JPEG Images .126.....	
<i>Xu Min (Anhui University), Liu Feng (Anhui University), and Zhu Erzhou (Anhui University)</i>	
Landmark Fitting for Sequential Faces Based on Active Shape Model and Tracking Correction .133.....	
<i>Li Qian-Qian (Huazhong University of Science and Technology), Han Shoudong (Huazhong University of Science and Technology), and Chen Yang (Huazhong University of Science and Technology)</i>	
3D Reconstruction of Fundus Vascular Structure Based on Binocular Stereovision .140.....	
<i>Meng Yu (Beijing Information Science and Technology University), Hao Meng (Beijing Information Science and Technology University), and guo-Zhong liu (Beijing Information Science and Technology University)</i>	

Adaptive Detection of Infrared Small Target Based on Target-Background Separation with Ratio Minimization of Singular Values .144.....	
<i>Yang Yu-Yuan (Tsinghua University) and Sun Wei-Dong (Tsinghua University)</i>	
Doppler Frequency Offset Estimation Algorithm for Terahertz Dynamic Imaging Signal .150.....	
<i>Xiang Jun-Zi (The Ohio State University)</i>	
A Research on Valuation System for Storage Optimized Surveillance Video .154.....	
<i>Mo Shi-Hong (South China Normal University) and Fan Bing-Bing (South China Normal University)</i>	
Surgical Navigation System Based on the Visual Object Tracking Algorithm .160.....	
<i>Yan Pei-Lun (Northeastern University), Hua Chun-Sheng (Chinese Academy of Sciences), He Yu-Qing (Chinese Academy of Sciences), and Wang Da-Zhi (Northeastern University)</i>	
Defect Detection of the Irregular Turbine Blades Based on Edge Pixel Direction Information .165.....	
<i>Ma Li-Yong (Northeastern University), Hua Chun-Sheng (Chinese Academy of Sciences), and He Yu-Qing (Chinese Academy of Sciences)</i>	
Long-term Tracking Based on Kernelized Correlation Filtering .171.....	
<i>Wu Qiang (Beijing University of Technology) and Zhou Zheng (Beijing University of Technology)</i>	
An Infrared Small Target Fast Detection Algorithm in the Sky Based on Human Visual System .176.....	
<i>Wu Qiang (Beijing University of Technology) and Liu Hua-Kai (Beijing University of Technology)</i>	
A Lane Detection Technique Based on Adaptive Threshold Segmentation of Lane Gradient Image .182.....	
<i>Ma Li-Yong (Northeastern University), Hua Chun-Sheng (Chinese Academy of Sciences), He Yu-Qing (Chinese Academy of Sciences), Liu Yun-Jing (Northeastern University at Qinhuangdao), and Yan Pei-Lun (Northeastern University)</i>	
Distortion Correction of Building-Fisheye-Images .187.....	
<i>SU Jie (North China Electric Power University), Jiang Dong-Qi (North China Electric Power University), and Wang Xu-Guang (North China Electric Power University)</i>	
Chromatic Aberration Analysis and Correction of Fore-Optics of a Light Field Imaging Spectrometer .192.....	
<i>An-Qi Liu (Beihang University), Yan Yuan (Beihang University), and Li-Juan Su (Beihang University)</i>	

Database Technology and Data Warehousing

Using Shuffled Frog Leaping Algorithm to View Selection Problem Subject to Dual Constraints .196.....	
<i>Chen Yu-Si (Southwest Jiaotong University) and Sun Lin-Fu (Southwest Jiaotong University)</i>	

Data Processing and Data Mining

Design and Implementation of Geological Environment Survey Big Data Platform for Danjiangkou Reservoir Water Source Area Based on WebGIS .203.....	<i>Fu Yong-Peng (Wuhan Centre of China Geological Survey), Li Yi-Yong (Wuhan Centre of China Geological Survey), Wang Lei (Wuhan Centre of China Geological Survey), Zhou Ling-Feng (China University of Geosciences (Wuhan)), and Li Xue-Ping (China University of Geosciences (Wuhan))</i>
MSTI: A New Clustering Validity Index for Hierarchical Clustering .208.....	<i>Peng Li (Anhui University), Feng Liu (Anhui University), and Er-Zhou Zhua (Anhui University)</i>
Regulation Characteristics of Chinese Medicine on Inflammatory Corpuscles .213.....	<i>Meng-Yan Li (Henan University of Chinese Medicine), Ming Bai (Henan University of Chinese Medicine), and MiaoSan-Ming Miao (Henan University of Chinese Medicine)</i>
An Actuated Signal Coordination Control Algorithm Based on Data Fusion for Urban Arterials .216.....	<i>Xiang Jun-Ping (University of Science and Technology of China), Mei Yu (The Hong Kong Polytechnic University), and Chen Zong-Hai (University of Science and Technology of China)</i>
Abundances Correction in Hyperspectral Data Unmixing to Handle Spectral Variability .224.....	<i>Yu-Qian Wang (East China University of Technology; NASG), Hai-Qing He (East China University of Technology; NASG), Peng-Gen Cheng (East China University of Technology), and Zi-Jia Wang (East China University of Technology)</i>
Voice Conversion Based on Unified Dictionary with Clustered Features between Non-parallel Corpus .229.....	<i>Jin Hui (Soochow University) and Yu Yi-Biao (Soochow University)</i>
To Study and Analyse Human Behaviours on Social Networks .233.....	<i>Farhan Amin (Yeungnam University), Awais Ahmad (Yeungnam University), and Gyu-Sang Choi (Yeungnam University)</i>
DOP: A Data Opening Framework and Application .237.....	<i>Mo Cheng-Wei (South China Normal University) and Fan Bing-Bing (South China Normal University)</i>
Research on Collaborative Forecasting in Grid-Connected Wind Power System .244.....	<i>Yong-Qian Li (North China Electric Power University) and Tian Li (North China Electric Power University)</i>
Classification of Alzheimer's Disease Based on Stacked Denoising Autoencoder .248.....	<i>Tong Zheng-Lin (Southeast University), Wang Hai-Xing (Southeast University), Yuan Shao-Xun (Southeast University), Sun Xiao (Southeast University), and Xie Jian-Ming (Southeast University)</i>
Structured Sparsity Characteristics in Hyperspectral Unmixing .254.....	<i>Yu-Qian Wang (East China University of Technology; NASG), Hai-Qing He (East China University of Technology; NASG), Xiang-Jian Xie (East China University of Technology), and Peng-Gen Cheng (East China University of Technology)</i>
A Corpus-Based Study on the Collocation between Degree Adverbs and ABB-Type Descriptive Adjectives .258	<i>Wu Zhong (Jiangnan University)</i>

Physical Fitness Clustering Analysis Based on Self-Organizing Feature Maps Network .261.....	
<i>Sheng Gao (Tianjin University of Finance Economics Pearl River College), Ming Lu (HeNan Radio and Television University), and Ning Miao (Tianjin University of Finance Economics Pearl River College)</i>	

Neural Networks and Genetic Algorithms

Electricity Power Load Forecast via Long Short-Term Memory Recurrent Neural Networks .265.....	
<i>Qiang Jiang (Leshan Normal University), Jia-Xiong Zhu (Leshan Normal University), Min Li (Leshan Normal University), and Hai-Yin Qing (Leshan Normal University)</i>	
Back Propagation Neural Network Based Data Adaptive Storage Method for Heterogeneous Storage Systems.269	
<i>Ying-Xun Fu (North China University of Technology), Shi-Lin Wen (North China University of Technology), and Li Ma (North China University of Technology)</i>	
Research on Modeling of User Learning Interest Based on Evolutionary Computation .273.....	
<i>Feng Dong-Hua (Nanyang Institute of technology) and Li Meng (Nanyang Institute of technology)</i>	

Grid Computing and Cloud Computing

A Study on the Security of Patch Management in a Cloud Computing Environment .278.....	
<i>Hu Yong-Xiang (Huanggang Normal University)</i>	

Web and Internet Computing

Research on Key Technology of WeChat Mini Program Based on Secure QR Code .283.....	
<i>Huo Pei-Jun (Beijing Institute of Graphic Communication), Cao Peng (Beijing Institute of Graphic Communication), Wang Xuan (Beijing Institute of Graphic Communication), Zhu Jian-Le (Beijing Institute of Graphic Communication), and Chen Fang-Fang (Beijing Institute of Graphic Communication)</i>	
Research on the Method of Finding the Semantic Relationship of Datasets .288.....	
<i>Gong Zhen (South China Normal University) and Fan Bing bing (South China Normal University)</i>	

Sensor Networks

DOA Estimation of Nested Electromagnetic Vector Sensors Array via MUSIC Algorithm .294.....	
<i>Xin-Ping Lin (Nanjing University of Aeronautics and Astronautics), Meng-Jie Zhou (Nanjing University of Aeronautics and Astronautics), Lang He (Nanjing University of Aeronautics and Astronautics), Chao Ge (Nanjing University of Aeronautics and Astronautics), and Xiao-Fei Zhang (Nanjing University of Aeronautics and Astronautics)</i>	

Two-Dimensional DOA Estimation with Partial Damaged Sensors in Rectangular Array Based on Tensor Reconstruction .299.....	
<i>Chao Ge (Nanjing University of Aeronautics and Astronautics), Lang He (Nanjing University of Aeronautics and Astronautics), Meng-Jie Zhou (Nanjing University of Aeronautics and Astronautics), Xin-Ping Lin (Nanjing University of Aeronautics and Astronautics), and Xiao-Fei Zhang (Nanjing University of Aeronautics and Astronautics)</i>	

Computer Science and Engineering

Recommend Device Defect Research Based on Optimized Edit Distance Algorithm and Entropy Weight Method .307.....	
<i>Qi Jing-Xian (Nari Group Corporation State Grid Electric Power Research Institute) and Jiang Yu (State Grid Jiangsu Electric Power Company)</i>	
Anomaly Behavior Detection Based on Ensemble Decision Tree in Power Distribution Network .312.....	
<i>Wang Dian-Gang (State Grid Sichuan Electric Power Corporation), Dong Jin-Chen (Shanghai University of Electric Power), Huang Lin (State Grid Sichuan Electric Power Corporation), and Gong Yan (State Grid Sichuan Electric Power Corporation)</i>	
A Dependent Variable Exclusively Coupled Chaotic System for a Pseudorandom Bit Generator .317.....	
<i>Qi Wu (Jiangxi University of Finance & Economics)</i>	
Exploration on the Cultivation of Innovative Talents in Higher Vocational Education .321.....	
<i>Yang Fang (Hanzhong Vocational and Technical College), Yan Jun (Hanzhong Vocational and Technical College), and Cao Lei (Hanzhong Vocational and Technical College)</i>	
Experimental Research on Applying Imagery Training Method in Teenager Table Tennis Training Classes .325	
<i>Xu Shu-Ping (North China Electric Power University), Wang Long (North China Electric Power University), Qi Xiao-Hong (North China Electric Power University), Liang Li-Xin (North China Electric Power University), and Ji Cheng-Bin (Beijing College of Politics and Law)</i>	
Study on Productivity of Chinese High-Tech Industry: An Empirical Analysis Based on Provincial Panel Data .329.....	
<i>Zhang Xian-Hui (Jiangnan University)</i>	
Digital Metering Based on Multi-unit Smart Grid .334.....	
<i>Zhong-Ping Tian (Central South University), Yu-Hua Ling (Central South University), Jian-Li Wang (Wasion Group Limited), and Xue-Xin Wang (Wasion Group Limited)</i>	
Modeling and Analysis of Mass Incidents Based on System Dynamics and Multi-agent .339.....	
<i>Zhang Ding-Hua (South China University of Technology), Li Wei-Jun (South China University of Technology), and Zheng Jie-Ting (South China University of Technology)</i>	
A Transformation Method of Ontology Model to Network Topology Model .345.....	
<i>Cheng Jian-Bo (University of Aerospace Engineering) and Hao Yan-Yu (Beijing Normal University)</i>	

Research on Requirements Analysis Method of Space Information Support Equipment System for Anti-missile Combat .349.....	<i>Liang Jia-Lin (Aerospace Engineering University), Wei Xiong (Aerospace Engineering University), Yue Wang (Aerospace Engineering University), and Jie Long (Aerospace Engineering University)</i>
A Current-to-Voltage Conversion Device Using a NdFeB Magnet, Permalloy, and Shear-Mode Piezoelectric Material .355.....	<i>Wei He (Baise University)</i>
Study on MOOC Flip Classroom .358.....	<i>Luo Yong (National University of Defense Technology) and Zhu Hong-Guo (Hunan Police Academy)</i>
An AHP-Based Evaluation Information System for Integrated Portals .362.....	<i>Ze-Yu Zhang (Beihang University), Yu-Min He (Beihang University), and Zhong Yao (Beihang University)</i>
The Implementation and Application of Interactive Meteorological Service Based on APP .366.....	<i>Li Jian (Zhejiang Meteorological Service Center), Deng Chuang (Zhejiang Meteorological Service Center), and Wei Chen (Zhejiang Meteorological Service Center)</i>
Mixed Traffic Mode Based Travel Route Recommendation .372.....	<i>Zhang Jia-Xiang (Northeastern University), Ma Zhan-Xiao (Northeastern University), and Gao Yan (Northeastern University)</i>
User Space or Kernel Space: Performance Evaluation of QAT Accelerator .377.....	<i>Xiao Chun-Hua (Chongqing University), Cheng Lin-Feng (Chongqing University), Xie Yu-Hua (Chongqing University), and Zhang Lei (Chongqing University)</i>
The Virtual Museum Based on HoloLens and Vuforia .382.....	<i>Gao Tian-Han (Northeastern University), Tian Qiao-Yu (Northeastern University), and Zhou Shuo (Northeastern University)</i>
A Design Scheme of Multispectral Criminal Detector .387.....	<i>Zhang Fa-Quan (Guilin University of Electronic Technology), Bi Jun-Qiang (Guilin University of Electronic Technology), Wang Guo-Fu (Guilin University of Electronic Technology), Ye Jin-Cai (Guilin University of Electronic Technology), and Hu Si (Guilin University of Electronic Technology)</i>
Agricultural Product Quality Traceability System Based on the Hybrid Mode .392.....	<i>Jun Wang (Shandong Institute of Commerce and Technology), Jia-Min Wang (Shandong Institute of Commerce and Technology), and Yong-Jun Zhang (Shandong Institute of Commerce and Technology)</i>

Artificial Intelligence

The Independent Core Observer Model Computational Theory of Consciousness and the Mathematical Model for Subjective Experience .396.....	<i>Kelley David (Artificial General Intelligence Inc)</i>
--	---

Pattern Recognition and Machine Learning

- Accelerating EM Missing Data Filling Algorithm Based on the K-Means .401.....
SUN Hua-Yan (Beijing Institute of Graphic Communication), Li Ye-Li (Beijing Institute of Graphic Communication), Zi Yun-Fei (Beijing Institute of Graphic Communication), and Han Xu (Beijing Institute of Graphic Communication)
- Risk Identification and Simulation Based on the Bayesian Inference .407.....
Ji Yun-Jie (Wuhan University of Technology), Chen Wen-Qi (Wuhan University of Technology), and He Ling (Wuhan University of Technology)
- Pedestrian Detection in Traffic Scene through Cascade AdaBoost Classifier and Target Tracking .412.....
Song Jun-Fang (Xizang Minzu University) and Song Xiang-Yu (Beijing Jiaotong University)
- Research on Intelligent Engine Fault Detection Method Based on Machine Learning .419.....
Hui-Yue Yu (Harbin University of Science and Technology), Chang-Yuan Liu (Harbin University of Science and Technology), and Jin-Feng Liu (Harbin University of Science and Technology)
- Research on the Method of Sparse Channel Estimation Based on Support Agnostic Bayesian Orthogonal Matching Pursuit .424.....
Du Xiu-Li (Dalian University), Zhu Kang-Te (Dalian University), Chen Bo (Dalian University), and Guo Yuan-Yuan (Dalian University)
- Survey of Kernel Extreme Learning Machine Kernel Function Based on the Perspective of Kernel Parameter Optimization Time .430.....
Zhang Sen-Yue (College of Computer Science and Technology Nanjing University of Aeronautics and Astronautics), Tan Wen-An (Shanghai Second Polytechnic University), and Li Yi-bo (Shenyang Aerospace University Economic and Management School)
- Android Malware Detection Based on Machine Learning .434.....
Wang Qing-Fei (Hubei University of Medicine) and Fang Xiang (Hubei University of Medicine)
- Palmprint Verification System with Dual-Line-Single-Point Assistance on Android Mobile Devices .437.....
Fu-Meng Gao (Nanchang Hangkong University), Lu Leng (Nanchang Hangkong University), and Xiang Fu (Nanchang Hangkong University)
- Joint Bayesian Face Recognition Based on Data Adaptive Enhancement and Feature Fusion .442.....
Wang Ya-Feng (Soochow University) and Yu Yi-Biao (Soochow University)
- Control Chart Recognition Method Based on Transfer Learning .446.....
Xu Xu-Dong (Beijing University of Technology) and Ma Li-Qian (Beijing University of Technology)

Software Engineering

- Design and Implementation of Hotel Room Information Management System Based on Kendo UI Front-End Framework .452.....
Mei Shan-Shan (Beijing Institute of Technology), Shan Chun (Beijing Institute of Technology), and Xue Jing-Feng (Beijing Institute of Technology)

Application of Test Case Selection and Fault Analysis Based on Orthogonal Experiment in Mobile Device Context-Aware Application Testing .456	
<i>Yang Guo (South China University of Technology) and Lu Lu (South China University of Technology)</i>	

E-Commerce and E-Government

Research on Innovation Application of Community O2O Based on Consumer Demand Analysis .462	
<i>Qiu Ling (Fuzhou University of International Studies and Trade), Lin Hong (Fuzhou University of International Studies and Trade), and Wang Yu-Bing (Fuzhou University of International Studies and Trade)</i>	

Author Index 467.	
-------------------------------	--