## Contents

Cache Replacement Improving Based on User Group Interest Degree  
*Shuai Zhang, Yueming Lu, and Xi Zhang*  
1

A Uighur Automatic Summarization Method Based on Sub-theme Division  
*Xiaodong Yan*  
8

Accelerating DFA Construction by Parallelizing Subset Construction  
*Yan Shao, Yanbing Liu, and Jianlong Tan*  
16

A Novel Feature Selection Method Based on Category Distribution and Phrase Attributes  
*Yi Zheng, Weihong Han, and Chengzhang Zhu*  
25

RayDroid: A Framework for Discovering Anomaly in Android  
*Fan Yang, Yue Li, and Lidong Zhai*  
33

A Dynamic Load Balancing Strategy Based on Feedback for Cluster Rendering System  
*Qian Li, Weiguo Wu, Liang Gao, Lei Wang, and Jianhang Huang*  
41

Extracting News Information Based on Webpage Segmentation and Parsing DOM Tree Reversely  
*Jing Li, Yueming Lu, and Xi Zhang*  
48

Enhancing Security and Robustness of P2P Caching System  
*Huailiang Peng, Majing Su, Qiong Dai, and Jianlong Tan*  
56

Minimizing the Negative Influence by Blocking Links in Social Networks  
*Qipeng Yao, Chuan Zhou, Linbo Xiang, Yanan Cao, and Li Guo*  
65

Self-Adaptive Frequency Scaling Architecture for Intrusion Detection System  
*Qiuwen Lu, Zhou Zhou, Hongzhou Sha, Qingyun Liu, and Hongcheng Sun*  
74

Nonparametric Topic-Aware Sparsification of Influence Networks  
*Weiwei Feng, Peng Wang, Chuan Zhou, Yue Hu, and Li Guo*  
83

A Survey of Network Traffic Visualization in Detecting Network Security Threats  
*Xiaomei Liu, Yong Sun, Liang Fang, Junpeng Liu, and Lingjing Yu*  
91

Sentinel: In Case of the Untrustworthy Behaviors Inside the Clouds  
*Dong Cui, Chuanyi Liu, Meiqi Yang, and Jincui Yang*  
99
Web-Based Heatmap of Physical Machines in Cloud Computing  .......... 107

Heng Chen and Xiaoshe Dong

RSA Encryption/Decryption Implementation Based on Zedboard ............... 114

Xu Bai, Lei Jiang, Xinxing Liu, and Jianlong Tan

Security Risk Assessment of Rich Communication Services Over LTE ........ 122

Xin He and Huiyun Jing

CAS: Content Attribution System for Network Forensics .................. 129

Yan Chen, Yiguo Pu, Xiaojun Chen, Jinqiao Shi, and Xiaojie Yu

Tracking and Analysis of Hot Words and Posts for University Campus ........ 137

Xuefeng Du and Xiaodong Yan

Software Vulnerability Severity Evaluation Based on Economic Losses .... 144

Yunxue Yang, Shuyuan Jin, and Xiaowei He

A Tibetan Word Sense Disambiguation Method Based on HowNet and Chinese-Tibetan Parallel Corpora ............................................... 152

Xinmin Jiang, Lirong Qiu, and Yeqing Li

SFAPCC: A Secure and Flexible Architecture for Public Cloud Computing .... 160

Baohui Li, Kefu Xu, Chuang Zhang, and Yue Hu

Towards Enumeration of NTFS Using USN Journals Under UEFI .......... 166

Zilu Zhang, Jinqiao Shi, and Lanlan Hu

Trusted Cloud Service Certification and Evaluation .......................... 175

Wei Li and Feng Cao

Enhanced AllJoyn Network with Centralized Management .................. 183

Linghan Li, Yonghua Li, Jiaru Lin, and Tianle Zhang

A Method of Evaluating Distributed Storage System Reliability .......... 189

Hongjie Huang and Shuqiang Yang

DDoS Detection Based on Second-Order Features and Machine Learning .... 197

Xiaowei He, Shuyuan Jin, Yunxue Yang, and Huiqiang Chi

Construction of Software and Hardware Resource Pool in Data Center Using Virtualization .......................................................... 206

Na Ye, Lili Dong, Genqing Bian, and Jian Li

Design and Performance Analysis of Utility Maximization-Based Cooperative MAC in Multi-rate WiFi Networks .......................... 213

Jiqiang Tang, Xiaoxiang Zou, and Dongbin Wang
Advanced Persistent Threat Detection Method Research
Based on Relevant Algorithms to Artificial Immune System

Bin Jia, Zhaowen Lin, and Yan Ma

Human Mobility Simulation in Smart Energy Grid

Tianle Zhang, Lixin Liu, Shouyou Song, and Yuyu Yuan

Community Detection in Complex Networks: Algorithms and Analysis

Yuan Jie, Liu Zhishuai, and Xiaoyu Qiu

Advanced Test Modelling and Execution Based on the International
Standardized Techniques TTCN-3 and UTP

Axel Rennoch, Marc-Florian Wendland, Andreas Hoffmann, and Martin Schneider

Understanding Human Goal Setting as a Means for Supporting
Goal Oriented Requirements Engineering

Jørgen Bøegh

The Improvement and Implementation of iSLIP Algorithm
Based on FPGA

Zeng Guang, Yao Lin, Zhao Ming, and Ma Yilan

The Optimization Design of High Q Microwave Photonic Filters
Based on Cascade Fiber Bragg Gratings

Gao Huimin and Zeng Guang

The Implementation of GFP Protocol Based on EOS in FPGA

Ma Yilan, Yao Lin, Zeng Guang, and Matturdi Bardi

An Improving Algorithm for Combined Input-Crosspoint-Queued Switches

Ling Xu, Yueyun Chen, and Zheng Gong

A New Network Coding Scheme in Two-relay OFDMA Networks

Hui Zhao, Yueyun Chen, and Xiaopan Yuan

RAMID: A Novel Risk Assessment Model of Information Dissemination
on Social Network

Hongzhou Sha, Xiaqian Li, Qingyun Liu, Zhou Zhou, Liang Zhang, and Lidong Wang

An Active Approach for Automatic Rule Discovery in Rule-Based
Monitoring Systems

Chao Ding, Mingxia Zeng, Kui Wang, Polo Pei, Zhongzhi Luan, and Depei Qian
Memory Centric Hardware Prefetching in Multi-core Processors

Danfeng Zhu, Rui Wang, Zhongzhi Luan, Depei Qian, Han Zhang, and Jihong Cai

Performance-Aware Based Correlated Datasets Replication Strategy

Lin Ye, Zhongzhi Luan, and Hailong Yang

Monitoring Social Events on Sina Weibo

Xi Zhang, Guanhong Jiang, and Yuan Su

Information Integration of Heterogeneous Employment Service Information of College Graduates

Yibo Xie and Zhongzhi Luan

Find Behaviors of Network Evasion and Protocol Obfuscation Using Traffic Measurement

Quan Bai, Gang Xiong, and Yong Zhao

Research of eID Mobile Identity Authentication Method

Xu Wu, Yue Fan, Xi Zhang, and Jin Xu

Reaching Critical Mass: The Effect of Adding New Content on Website Visitors and User Registration

Krishna Moniz and Yuyu Yuan

A Method to Build and Expand the Domain Dictionary Automatically Based on WordNet

Xu Wu, Weiyi Zhang, Xi Zhang, and Jin Xu

Research on Modeling of Software Automatic Test

Jincui Yang, Yuyu Yuan, and Tianle Zhang

The Design and Implementation of APK eBooks Online Generation System Based on FBReader

Xu Wu, Jiada Shi, and Xiaqing Xie

Domain-Specific Semantic Retrieval of Institutional Repository Based on Query Extension

Xu Wu, Pengchong Li, Jin Xu, and Xiaqing Xie

Author Index
Trustworthy Computing and Services
International Conference, ISCTCS 2014, Beijing, China, November 28-29, 2014, Revised Selected papers
Yueming, L.; Xu, W.; Zhang, X. (Eds.)
2015, XII, 414 p. 206 illus., Softcover
ISBN: 978-3-662-47400-6