

# **International Conference on Information and Network Security**

**(ICINS 2013)**

**IET Conference Publications 643**

**Beijing, China  
22 – 24 November 2013**

**ISBN: 978-1-63266-628-4**

**Printed from e-media with permission by:**

Curran Associates, Inc.  
57 Morehouse Lane  
Red Hook, NY 12571



**Some format issues inherent in the e-media version may also appear in this print version.**

Copyright© (2013) by the Institution of Engineering and Technology  
All rights reserved.

Printed by Curran Associates, Inc. (2014)

For permission requests, please contact the Institution of Engineering and Technology  
at the address below.

Institution of Engineering and Technology  
P. O. Box 96  
Stevenage, Hertfordshire  
U.K. SG1 2SD

Phone: 01-441-438-767-328-328  
Fax: 01-441-438-767-328-375

[www.theiet.org](http://www.theiet.org)

**Additional copies of this publication are available from:**

Curran Associates, Inc.  
57 Morehouse Lane  
Red Hook, NY 12571 USA  
Phone: 845-758-0400  
Fax: 845-758-2634  
Email: [curran@proceedings.com](mailto:curran@proceedings.com)  
Web: [www.proceedings.com](http://www.proceedings.com)

# TABLE OF CONTENTS

<b>Capability Analysis and Improvement of JFKi Anti-DoS</b> .....	1
<i>Yan Feng</i>	
<b>Information Security Events Aggregation with Multi Party Privacy Preserving</b> .....	6
<i>Jizhi Wang, Guang Yang</i>	
<b>A Novel Parametric Channel Estimation Approach for OFDM Systems</b> .....	10
<i>Haobo Qing, Yuanan Liu, Gang Xie, Kaiming Liu, Fang Liu</i>	
<b>Search Algorithm Based on Priority in Semantic Method for Malicious Code Detection</b> .....	14
<i>Ke Wang, Jiansheng Han, Han Zhang</i>	
<b>A Location Authentication Scheme Based on Proximity Test of Location Tags</b> .....	19
<i>Dai Jiazhu, Li Zhilong</i>	
<b>Improved Incremental Support Vector Machine with Hybrid Feature Selection for Network Intrusion Detection</b> .....	25
<i>Xiaocong Zhou, Dongling Luo, Yang Yi</i>	
<b>Key Management Scheme Based on Identity and Dual Cluster Heads for WSN</b> .....	31
<i>Yi Liu, Jinkou Ding, Qiaoyan Wen</i>	
<b>CCMSS: The CNCERT Cloud Based Mobile Sinkhole System to Monitor Mobile Malware Victims in China</b> .....	37
<i>Nengqiang He, Sheng Gao, Minghua Wang, Xinran Liu</i>	
<b>A Quantitative Survivability Test Method in the Large Scale Network Based on SD</b> .....	43
<i>Ming Liang, Wang Dongxia, Miao Qing</i>	
<b>Dynamically Validate Network Security Based on Adaptive Control Theory</b> .....	49
<i>Fang Lan, Wang Chunlei, Miao Qing, Liu Li</i>	
<b>Analysis of Technique and Management Requirements in Cloud Computing Process</b> .....	55
<i>Bin Zhang, Ling Tong, Kaiguo Yuan, Jinghui Duan</i>	
<b>A Complex Network Analysis Model for Cyberspace Survivability</b> .....	63
<i>Wang Chunlei, Miao Qing, Fang Lan</i>	
<b>Study on Framework of Distributed Key Management for MANETS</b> .....	70
<i>Q. S. Liu, D. S. Zhang, Y. Zhao</i>	
<b>A Dynamic Artificial Immune-based Intrusion Detection Method using Rough And Fuzzy Set</b> .....	76
<i>Ling Zhang, Zhongying Bai, Shoushan Luo, Guanning Cui, Xing Li</i>	
<b>A Lattice-Based Multi-Receiver Signcryption Scheme for Point to Multi-Point Communication</b> .....	83
<i>Xiuhua Lu, Qiaoyan Wen, Zhengping Jin, Licheng Wang</i>	
<b>A Secure and High Efficient Computerized Adaptive Testing Scheme for Computer Courses Based on Identity</b> .....	90
<i>Chen Junhua, Wei Lai, Tang Ying</i>	
<b>An Approach for Cross-Domain Access Control Policy Generation from Reputation Evaluation to Trust Management</b> .....	95
<i>Y. Wang, Z. Y. Liu, C. Z. Hu, X. L. Zhao, J. F. Xue, L. X. Wei</i>	
<b>An Efficient and Robust Certificateless Short Signature Scheme</b> .....	103
<i>Lu Zhang, Jingwei Liu, Huichao Wu, Rong Sun</i>	
<b>Remote Mutual Password Authentication for Online Payment with the Elliptic Curve Cryptography Based Key Agreement</b> .....	110
<i>Linmei Jiang, Yunfeng Wang, Niansheng Liu, Donghui Guo</i>	
<b>A Method of Feature Selection for Continuous Features Base on Similarity Degrees of Interval Numbers</b> .....	116
<i>Wang Hongwei</i>	
<b>A Variant of BB84 Protocol Based on Quantum Phase</b> .....	121
<i>Aihong Chen, Weimin Peng, Tian Gui</i>	
<b>Analysis the Montgomery Ladder Algorithm for Elliptic Curves over Ternary Fields</b> .....	126
<i>Haihua Gu, Wenlu Xie, R. C. C. Cheung</i>	
<b>Strengthening Dynamic Cell Spreading (DCS) Image Steganography</b> .....	131
<i>A. M. Barmawi</i>	
<b>Multi-level Web Content Filter Model Based on MapReduce</b> .....	137
<i>Bin Wu, Xing Lin, Dongmei Zhang</i>	
<b>An Efficient Massive Evidence Storage and Retrieval Scheme in Encrypted Database</b> .....	143
<i>Ruoqing Zhang, Zehui Li, Yatao Yang, Zichen Li</i>	

<b>FL-LPVG: An Approach for Anomaly Detection Based on Flow-level Limited Penetrable Visibility Graph</b> .....	149
<i>Y. B. Luo , B. S. Wang , Y. P. Sun , B. F. Zhang , X. M. Chen</i>	
<b>Achieving Robust Biometric based Access Control Mechanism for Cloud Computing</b> .....	156
<i>Kun Huang , Jiangyong Shi , Ming Xian , Jian Liu</i>	
<b>Incremental Principal Component Analysis Method on Online Network Anomaly Detection</b> .....	163
<i>Li Bai-Nan , Yao Dong , Qian Ye-Kui</i>	
<b>Re-encryption Security Model Over Outsourced Cloud Data</b> .....	169
<i>Lizhi Xiong, Zhengquan Xu</i>	
<b>Logistics Allocation Service Generation Method Based on Real-time Information on the Vehicle Network</b> .....	174
<i>Yamei Xia, Min Lei</i>	
<b>GHz Wideband Real-time FFT Algorithm based on FPGA</b> .....	180
<i>Luo Wenqiu, Cao Peng</i>	
<b>A New Algorithm of Attributes Reduction Based on Rough Set Theory and Applicate in Ship's Fuel Consumption Analysis</b> .....	185
<i>Lin Sang , Zhenjiang Liu , Fan Chu , Quanying Zhu</i>	
<b>Author Index</b>	