Contents

Optimized Analysis Based on Improved Mutation and Crossover Operator for Differential Evolution Algorithm. 1
  Zhenlan Liu, Jian-bin Li, and Qiang Song

Revisiting Localization Attacks in Mobile App People-Nearby Services. 17
  Jialin Wang, Hanni Cheng, Minhui Xue, and Xiaojun Hei

Lengthening Unidimensional Continuous-Variable Quantum Key Distribution with Noiseless Linear Amplifier 31
  Yu Cao, Jianwu Liang, and Ying Guo

Research on Internet of Vehicles’ Privacy Protection Based on Tamper-Proof with Ciphertext 42
  Qifan Wang, Guihua Duan, Entao Luo, and Guojun Wang

An Attack to an Anonymous Certificateless Group Key Agreement Scheme and Its Improvement 56
  Xuefei Cao, Lanjun Dang, Kai Fan, and Yulong Fu

A Space Efficient Algorithm for LCIS Problem 70
  Daxin Zhu and Xiaodong Wang

Improving the Efficiency of Dynamic Programming in Big Data Computing 78
  Xiaodong Wang and Daxin Zhu

Traceable and Complete Fine-Grained Revocable Multi-authority Attribute-Based Encryption Scheme in Social Network 87
  Yanmei Li, Fang Qi, and Zhe Tang

The All Seeing Eye: Web to App Intercommunication for Session Fingerprinting in Android 93
  Efthimios Alepis and Constantinos Patsakis

An Efficient Hierarchical Identity-Based Encryption Scheme for the Key Escrow 108
  Yuanlong Li, Fang Qi, and Zhe Tang

An Improved Pre-copy Transmission Algorithm in Mobile Cloud Computing 121
  Xianfei Huang, Nao Wang, and Gaocai Wang
<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Motivation of DDOS Attack-Aware Link Assignment between Switches to SDN Controllers</td>
<td>131</td>
</tr>
<tr>
<td>TIM: A Trust Insurance Mechanism for Network Function Virtualization Based on Trusted Computing</td>
<td>139</td>
</tr>
<tr>
<td>Guangwu Xu, Yankun Tang, Zheng Yan, and Peng Zhang</td>
<td></td>
</tr>
<tr>
<td>Personalized Semantic Location Privacy Preservation Algorithm Based on Query Processing Cost Optimization</td>
<td>153</td>
</tr>
<tr>
<td>Mengzhen Xu, Hongyun Xu, and Cheng Xu</td>
<td></td>
</tr>
<tr>
<td>Smartphone Bloatware: An Overlooked Privacy Problem</td>
<td>169</td>
</tr>
<tr>
<td>Haroon Elahi, Guojun Wang, and Xu Li</td>
<td></td>
</tr>
<tr>
<td>An ECC-Based Off-line Anonymous Grouping-Proof Protocol</td>
<td>186</td>
</tr>
<tr>
<td>Zhibin Zhou, Pin Liu, Qin Liu, and Guojun Wang</td>
<td></td>
</tr>
<tr>
<td>PCSD: A Tool for Android Malware Detection</td>
<td>201</td>
</tr>
<tr>
<td>Bo Leng, Jianbin Li, Yang Xu, Liang She, Wuqiang Gao, and Quanrun Zeng</td>
<td></td>
</tr>
<tr>
<td>Authorship Analysis of Social Media Contents Using Tone and Personality Features</td>
<td>212</td>
</tr>
<tr>
<td>Athira Usha and Sabu M. Thampi</td>
<td></td>
</tr>
<tr>
<td>Privacy-Preserving Handover Authentication Protocol from Lightweight Identity-Based Signature for Wireless Networks</td>
<td>229</td>
</tr>
<tr>
<td>Changji Wang, Shengyi Jiang, and Yuan Yuan</td>
<td></td>
</tr>
<tr>
<td>Spatial Outlier Information Hiding Algorithm Based on Complex Transformation</td>
<td>241</td>
</tr>
<tr>
<td>Zhaoyu Shou, Akang Liu, Simin Li, and Xiawei Cheng</td>
<td></td>
</tr>
<tr>
<td>A Reputation Model Considering Repurchase Behavior and Mechanism Design to Promote Repurchase</td>
<td>256</td>
</tr>
<tr>
<td>Yuan Liu, Jin Bai, Guibing Guo, Xingwei Wang, and Zhenhua Tan</td>
<td></td>
</tr>
<tr>
<td>Chinese Named Entity Recognition Based on B-LSTM Neural Network with Additional Features</td>
<td>269</td>
</tr>
<tr>
<td>Liubo Ouyang, Yuan Tian, Hui Tang, and Boyun Zhang</td>
<td></td>
</tr>
<tr>
<td>Amplified Locality-Sensitive Hashing for Privacy-Preserving Distributed Service Recommendation</td>
<td>280</td>
</tr>
<tr>
<td>Lianyong Qi, Wanchun Dou, Xuyun Zhang, and Shui Yu</td>
<td></td>
</tr>
</tbody>
</table>
Learn to Accelerate Identifying New Test Cases in Fuzzing .......................... 298
Weiwei Gong, Gen Zhang, and Xu Zhou

Service Selection Based on User Privacy Risk Evaluation ............................. 308
Mingdong Tang, Sumeng Zeng, Jianxun Liu, and Buqing Cao

An Efficient Lattice-Based Proxy Signature with Message Recovery .......... 321
Faguo Wu, Wang Yao, Xiao Zhang, and Zhiming Zheng

FABAC: A Flexible Fuzzy Attribute-Based Access Control Mechanism ......... 332
Yang Xu, Wuqiang Gao, Quanrun Zeng, Guojun Wang, Ju Ren, and Yaoxue Zhang

Security Analysis and Improvement of An Anonymous Attribute-Based Proxy Re-encryption ................................................................. 344
Hongjian Yin and Leyou Zhang

Relacha: Using Associative Meaning for Image Captcha Understandability ................................................................. 353
Songjie Wei, Qianqian Wu, and Milin Ren

Identification of Natural Images and Computer Generated Graphics Based on Multiple LBPs in Multicolor Spaces ........................................... 368
Fei Peng, Xiao-hua Hu, and Min Long

A Formal Android Permission Model Based on the B Method .................... 381
Lu Ren, Rui Chang, Qing Yin, and Yujia Man

S-SurF: An Enhanced Secure Bulk Data Dissemination in Wireless Sensor Networks ................................................................. 395
Jian Shen, Tiantian Miao, Qi Liu, Sai Ji, Chen Wang, and Dengzhi Liu

Jijun Zeng, Zhenyue Long, Guiquan Shen, Lihao Wei, and Yunkui Song

Secure Vibration Control of Flexible Arms Based on Operators’ Behaviors... 420
Jiantao Li, Hua Deng, and Wenjun Jiang

A New Color Image Encryption Scheme Based on Chaotic Hénon Map and Lü System ................................................................. 432
Chong Fu, Gao-yuan Zhang, Bei-li Gao, Jing Sun, and Xue Wang

A Distributed Authentication Protocol Using Identity-Based Encryption and Blockchain for LEO Network ................................................................. 446
Shuai Li, Meilin Liu, and Songjie Wei
A Detection System for Distributed DoS Attacks Based on Automatic Extraction of Normal Mode and Its Performance Evaluation

Yaokai Feng, Yoshiaki Hori, and Kouichi Sakurai

A Unified Model for Detecting Privacy Leakage on Android

Xueqi Ren, Xinning Wang, Hua Tang, Zhaohui Ma, Jiechao Wu, and Gansen Zhao

Multi-party Security Computation with Differential Privacy over Outsourced Data

Ping Li, Heng Ye, and Jin Li

REW-SMT: A New Approach for Rewriting XACML Request with Dynamic Big Data Security Policies

Ha Xuan Son, Tran Khanh Dang, and Fabio Massacci

Decoupling Security Services from IaaS Cloud Through Remote Virtual Machine Introspection

Huaizhe Zhou, Haihe Ba, Jiangchun Ren, Yongjun Wang, Zhiying Wang, and Yunshi Li

Privacy Preserving Hierarchical Clustering over Multi-party Data Distribution

Mina Sheikhalishahi and Fabio Martinelli

Improving MQTT by Inclusion of Usage Control

Antonio La Marra, Fabio Martinelli, Paolo Mori, Athanasios Rizos, and Andrea Saracino

Using JSON to Specify Privacy Preserving-Enabled Attribute-Based Access Control Policies

Que Nguyet Tran Thi, Tran Khanh Dang, Huy Luong Van, and Ha Xuan Son

Comprehensive Diversity in Recommender Systems

Tranos Zuva and Raoul Kwuimi

Towards Intelligent System Wide Information Management for Air Traffic Management

Li Weigang, Alessandro F. Leite, Vitor F. Ribeiro, Jose A. Fregnani, and Italo R. de Oliveira


Mouna Jouini and Latifa Ben Arfa Rabai

Author Index
Security, Privacy, and Anonymity in Computation, Communication, and Storage
Wang, G.; Atiquzzaman, M.; Yan, Z.; Choo, K.-K.R. (Eds.)
2017, XVIII, 610 p. 200 illus., Softcover
ISBN: 978-3-319-72388-4