2015 International Conference on Cyber Security of Smart Cities, Industrial Control System and Communications (SSIC 2015)

Shanghai, China
5-7 August 2015
International Conference on Security of Smart cities, Industrial Control System and Communications
(SSIC 2015)

Table of Contents

Session 1: Vehicular Networks security

A Dempster-Shafer Theory Based Traffic Information Trust Model in Vehicular Ad Hoc Networks....1
Yue Wu, Fanchao Meng, Guanghao Wang and Ping Yi

Classified Security Protection Evaluation for Vehicle Information System....8
Huangmiao Chen, Xizhen Chen, Lei Fan and Changsong Chen

A Reputation System for Detection of Black Hole Attack in Vehicular Networking....14
Redouane Doulam, Pengwenlong Gu, Lyes Khoukhi, Ahmed Serhrouchni and Rida Khatoun

Session 2: Vehicular Networks security

Secure Public Key Regime (SPKR) in Vehicular Networks....19
Heng Chuan Tan, Maode Ma, Peter Han Joo Chong, Houda Labiod and Jun Zhang

Bayesian-based Model for a Reputation System in Vehicular Networks....26
Youcef Begriche, Rida Khatoun, Lyes Khoukhi and Chen Xizhen.

On the Use of Security Analytics for Attack Detection In Vehicular Ad Hoc Networks.....32
Dhavy Gantsou.

Session 3: Communication Security

A new genetic-based rumor diffusion model for social networks....38
Yanan Wang, Xizhen Chen and Jianhua Li.

Safe Box Cloud Authentication using TLS extension....43
Mounira Msahli, Mohamed Tahar Hammi, and Ahmed Serhrouchni.

Malicious URL Prediction based on Community Detection....49
Lixiong Zheng, Xiaolin Xu, Jia Li, Lu Zhang, Xuanchen Pan, Zhiyuan Ma and Lihong Zhang

Session 4: Communication Security

A Novel Fibonacci Windows Model for Finding Emerging Patterns over Online Data Streams....56
Tubagus Akhriza, Yinghua Ma and Jianhua Li
Survey on Packet Marking Fields and Information for IP Traceback....64
Marion Vasseur, Xiuzhen Chen, Rida Khatoun and Ahmed Serhrouchni

Secure Access & Authentication for Collaborative InterCloud Exchange Service....72
Fouad Amine Guenane and Ahmed Serhrouchni

Session 5: Industrial Control System Security
A Testbed for SCADA Cyber Security and Intrusion Detection....77
Prateek Singh, Saurabh Garg, Vinod Kumar and Zia Saquib

Analysis of cyber security for Industrial control systems....83
Zakarya Drias, Ahmed Serhrouchni and Olivier Vogel

Overview of Cyber-security of Industrial Control System....91
Xiaohe Fan, Kefeng Fan, Yong Wang and Ruikang Zhou

Session 6: Smart Cities Security
A Solution Based Analysis of Attack Vectors on Smart Home Systems....98
Andreas Brauchli and Depeng Li

Data Security and Threat Modeling for Smart City Infrastructure....104
Shuangbao Paul Wang and William Kelly

Malicious Data Identification in Smart Grid Based on Residual Error Method....110
Zongshuai Hu, Yong Wang, Chunhua Gu, Dejun Meng, Xiaoli Yang and Shuai Chen

Session 7: Wireless Networks Security
Security in MIMO Wireless Hybrid Channel with Artificial Noise....115
Xiao Chen, Liang Pang, Yuhuan Tang, Hongpeng Yang and Zhi Xue

A Random Key Management Scheme for Heterogeneous Wireless Sensor Network....119
Lina Zhu Zuochang Zhang

Flooding Attacks Detection in MANETs....124
Mohammad Rmayti, Youcef Begriche, Rida Khatoun, Lyes Khokhi and Dominique Gaiti

Invited Paper
Data Protection: Combining Fragmentation, Encryption, and Dispersion....130
Gerard Memmi, Katarzyna Kapusta, and Han Qiu.