

WASA 2019 Program

23-Jun-19

[3:00 pm] to [7:00 pm] [Registration]

24-Jun-19

[7:00 am] to [11:00 am] [Registration]

[7:00 am] to [8:30 am] [Breakfast]

[8:30 am] to [9:00 am] [Opening Session]

Room Hibiscus II

[9:00 am] to [10:00 am]

Room Hibiscus II

Keynote 1

The Internet of Things and its Security Challenges

Prof. Wenjing Lou

[10:00 am] to [10:30 am] [Coffee Break]

[10:30 am] to [11:30 am]

Room Hibiscus II

Keynote 2

Internet of Things in the Era of AI

Prof. Xiangyang Li

[11:30 am] to [1:30 pm] [Lunch Break]

[1:30 pm] to [3:00 pm]

Room Carnation

Session 01: Anomaly Detections

Detecting Anomalies in Communication Packet Streams based on Generative Adversarial Networks

Di Zhang, Qiang Niu and Xingbao Qiu

Wide and Recurrent Neural Networks for Detection of False Data Injection in Smart Grids

Yawei Wang, Donghui Chen, Cheng Zhang, Xi Chen and Xiuzhen Cheng

Detecting Android Side Channel Probing Attacks Based on System States

Qixiao Lin, Jian Mao, Futian Shi, Shishi Zhu and Zhenkai Liang

[1:30 pm] to [3:00 pm]

Room Plumeria

Session 02: Autonomous Vehicles and Aircraft I: Route Planning

Optimal Transportation Network Company Vehicle Dispatching via Deep Deterministic Policy Gradient

Dian Shi, Xuanheng Li, Ming Li, Jie Wang, Pan Li and Miao Pan

Trajectory Comparison in a Vehicular Network I: Computing a Consensus Trajectory

Peng Zou, Letu Qingge, Qing Yang and Binhai Zhu

Trajectory Comparison in a Vehicular Network II: Eliminating the Redundancy

Letu Qingge, Qing Yang, Peng Zou and Binhai Zhu

[1:30 pm] to [3:00 pm]

Room Pakalana/Anthurium

Session 03: Algorithm: Edge Computing

Building Trustful Crowdsensing Service on the Edge

Biao Yu, Yingwen Chen, Shaojing Fu, Wanrong Yu and Xiaoli Guo

An Efficient and Recoverable Data Sharing Mechanism for Edge Storage

Yuwen Pu, Ying Wang, Feihong Yang, Jin Luo, Chunqiang Hu and Haibo Hu

Online DAG Scheduling with On-demand Function Configuration in Edge Computing

Liuyan Liu, Haoqiang Huang, Haisheng Tan, Wanli Cao, Panlong Yang and Xiang-Yang Li

[3:00 pm] to [3:30 pm] [Coffee Break]

[3:30 pm] to [5:00 pm]

Room Carnation

Session 04: Trustworthy Communication and Computation

An Efficient Revocable Attribute-based Signcryption Scheme with Outsourced Designcryption in Cloud Computing

Ningzhi Deng, Shaojiang Deng, Chunqiang Hu and Kaiwen Lei

TIDS: Trust Intrusion Detection System based on Double Cluster Heads for WSNs

Na Dang, Xiaowu Liu, Jiguo Yu and Xiaowei Zhang

Trustroom: A Novel Blockchain-based Cross-Domain Authentication Scheme for Wi-Fi Access

Chunlei Li, Qian Wu, Hewu Li and Jun Liu

[3:30 pm] to [5:00 pm]

Room Plumeria

Session 05: Autonomous Vehicles and Aircraft II: Control and Monitoring

Spatiotemporal Feature Extraction for Pedestrian Re-identification

Ye Li, Guangqiang Yin, Shaoqi Hou, Jianhai Cui and Zicheng Huang

An Integrated UAV Platform for Real-time and Efficient Environmental Monitoring

Linyan Xu, Zhangjie Fu and Liran Ma

Cooperative BSM dissemination in DSRC/WAVE based Vehicular Networks

Lin Chen, Xiaoshuang Xing, Gaofei Sun, Jin Qian and Xin Guan

[3:30 pm] to [5:00 pm]

Room Pakalana/Anthurium

Session 06: Algorithm: Optimization

Minimum Control Cost of Weighted Linear Dynamic Networks

Zhaoquan Gu, Yuexuan Wang, Yijie Wu, Yongcai Wang and Yueming Wang

Magnetic Beamforming Algorithm for Hybrid Relay and MIMO Wireless Power Transfer

Bin Ma, Yubin Zhao, Xiaofan Li, Yuefeng Ji and Cheng-Zhong Xu

Joint Optimization of Routing and Storage Node Deployment in Heterogeneous Wireless Sensor Networks towards

Reliable Data Storage

Feng Li, Huan Yang, Yifei Zou, Dongxiao Yu and Jiguo Yu

[6:00 pm] to [8:00 pm]

Ala Moana Hotel

[Dinner Buffet] (all registered attendees)

25-Jun-19

[7:00 am] to [8:30 am] [Breakfast]

[8:30 am] to [10:00 am]
Room Carnation

Session 7: Privacy Leakage in the Web
Who leaks my privacy: Towards Automatic and Association Detection with GDPR Compliance
Qiwei Jia, Lu Zhou, Huaxin Li, Ruoxu Yang, Suguo Du and Haojin Zhu
User Identity De-Anonymization Based on User Attributes
Cheng Zhang, Honglu Jiang, Yawei Wang, Qin Hu and Xiuzhen Cheng
Automated and Personalized Privacy Policy Extraction under GDPR Consideration
Cheng Chang, Huaxin Li, Yichi Zhang, Suguo Du, Hui Cao and Haojin Zhu

[8:30 am] to [10:00 am]
Room Plumeria

Session 08: Network Resource Allocation
Fast and Simple Spectrum Scheduling under the Physical Interference Model
Xiaohua Xu, Yuanfang Chen and Shuibing He
ONE-Geo: Client-Independent IP Geolocation based on Owner Name Extraction
Yucheng Wang, Xu Wang, Hongsong Zhu, Hai Zhao, Hong Li and Limin Sun
Fairness-Aware Auction Mechanism for Sustainable Mobile Crowdsensing
Korn Sooksatra, Ruinian Li, Yingshu Li, Xin Guan and Wei Li

[8:30 am] to [10:00 am]
Room Pakalana/Anthurium

session 9: Algorithm: Machine Learning
Fusing RFID and Computer Vision for Occlusion-Aware Object Identifying and Tracking
Mi Li, Yao Chen, Yanfang Zhang, Jian Yang and Hong Du
CXNet-m2: A Deep Model with Visual and Clinical Contexts for Image-based Detection of Multiple Lesions
Shuaijing Xu, Guangzhi Zhang, Rongfang Bie and Anton Kos
A Location Predictive Model Based on 2D Angle data for HAPS Using LSTM
Ke Xiao, Chaofei Li, Wei Cheng, Yunhua He and Chao Wang

[10:00 am] to [10:30 am] [Coffee Break]

[10:30 am] to [12:00 pm]
Room Carnation

Session 10: Privacy Enhancing Technologies
Privacy Protection for Context-Aware Services: A Two-Layer Three-Party Game Model
Yan Huang, Zhipeng Cai and Anu Bourgeois
Decentralized Hierarchical Authorized Payment with Online Wallet for Blockchain
Qianwen Wei, Shujun Li, Wei Li, Hong Li and Mingsheng Wang
Differentially Private Event Sequences over Infinite Streams with Relaxed Privacy Guarantee
Xuebin Ren, Shuyang Wang, Xianghua Yao, Chia-Mu Yu, Wei Yu and Xinyu Yang

[10:30 am] to [12:00 pm]
Room Plumeria

Session 11: Cognitive Radio
Massive MIMO Cognitive Cooperative Relaying
Son Dinh, Hang Liu and Feng Ouyang
Performance Investigation of Polar Codes Over Nakagami-M Fading and Real Wireless Channel Measurements
Mohammed Sarkhi, Abdulsahib Albehadili, Osama Hussein, Ahmad Javaid and Vijay Devabhaktuni
Decomposable Atomic Norm Minimization Channel Estimation for Millimeter Wave MIMO-OFDM Systems
Qianwen An, Tao Jing, Yingkun Wen, Zhuojun Duan and Yan Huo

[10:30 am] to [12:00 pm]
Room Pakalana/Anthurium

Session 12: Algorithm: Social Network
Self-attention Based Collaborative Neural Network For Recommendation
Shengchao Ma and Jinghua Zhu
Deep Neural Model for Point-of-interest Recommendation Fused with Graph Embedding Representation
Jinghua Zhu and Xu Guo
Parallel Multicast Information Propagation Based on Social Influence
Yuqi Fan, Liming Wang, Lei Shi and Dingzhu Du

[12:00 pm] to [1:30 pm] [Lunch Break]

[1:30 pm] to [3:00 pm]
Room Carnation

Session 13: Security
A New Outsourced Data Deletion Scheme with Public Verifiability
Changsong Yang, Xiaoling Tao, Feng Zhao and Yong Wang
Research on Physical Layer Security Scheme Based on OAM Modulation for Wireless Communications
Weiqing Huang, Yan Li, Dong Wei and Qiaoyu Zhang
Lightweight IoT Malware Visualization Analysis via Two-Bits Networks
Hui Wen, Weidong Zhang, Yan Hu, Qing Hu, Hongsong Zhu and Limin Sun

[1:30 pm] to [3:00 pm]
Room Plumeria

Session 14: Cyber-Physical Systems I: Communication
Real-time Data Aggregation in Duty-Cycling Multi-hop Sensor Networks
Xiaohua Xu, Yi Zhao and Dongfang Zhao.
Model Based Adaptive Data Collection Algorithms in Wireless Sensor Networks
Yidi Cao and Ran Bi
Evolutionary Game Based Gateway Selection Algorithm in Cyber-Physical System
Hao Wang and Jianzhong Li

[1:30 pm] to [3:00 pm]
Room Pakalana/Anthurium
Session 15: Algorithm: Various Topics
DDSEIR: a Dynamic Rumor Spreading Model in Online Social networks
Li Li, San-Shun Zhang, Hui Xia, Rui Zhang and Ye Li
Data Forwarding and Caching Strategy for RSU Aided V-NDN
Zhenchun Wei, Jie Pan, Kangkang Wang, Lei Shi, Zengwei Lyu and Lin Feng
Contextual Combinatorial Cascading Thompson Sampling
Zhenyu Zhu, Liusheng Huang and Hongli Xu

[3:00 pm] to [3:30 pm] [Coffee Break]

[3:30 pm] to [5:00 pm]
Room Carnation
Session 16: Privacy
A Hybrid Approach for Recognizing Web Crawlers
Weiping Zhu, Hang Gao, Zongjian He, Jiangbo Qin and Bo Han
DPSR: A Differentially Private Social Recommender System for Mobile Users
Xueling Zhou, Lingbo Wei, Yukun Niu, Chi Zhang and Yuguang Fang
Privacy Protection Sensing Data Aggregation for Crowd-Sensing
Yunpeng Wu, Shukui Zhang, Yuren Yang, Hao Long and Li Zhang

[3:30 pm] to [5:00 pm]
Room Plumeria
Session 17: Cyber-Physical Systems II: Power Management
Hybrid Low Frequency Electromagnetic Field and Solar Energy Harvesting Architecture for Self-Powered Wireless Sensor System
Di Cao, Jing Run Jia, Min Jie Xie, Yan Jing Lei and Wei Li
Cross-layer Optimization on Charging Strategy for Wireless Sensor Networks Based on Successive Interference Cancellation
Juan Xu, Xingxin Xu, Xu Ding, Lei Shi and Yang Lu
Multi-Hop Recharging Sensor Wireless Networks Optimization With Successive Interference Cancellation
Peng Zhang, Xu Ding, Jing Wang, Juan Xu and Lei Shi

[3:30 pm] to [5:00 pm]
Room Pakalana/Anthurium
Session 18: IoT
Analysis of Best Network Routing Structure for IoT
Shasha Chen, Shengling Wang and Jianghui Huang
Optimal Routing of tight optimal Bidirectional Double-loop Networks
Liu Hui and Wang Shengling
Utility Aware Task Offloading for Mobile Edge Computing
Ran Bi, Shan Huang, Jiankang Ren and Qian Liu

[6:00 pm] to [8:00 pm] [VIP Dinner] (invited guests)
Shokudo Japanese
Restaurant & Bar

26-Jun-19

[9:00 am] to [11:00 am] [Coffer Break]

[9:00 am] to [12:00 pm]
Room Carnation
New Research Panel