WASA 2017 Agenda

[June 19, Monday]

[7:00 am] to [8:30 am]	[Registration]
[8:30 am] to [9:00 am]	[Opening Remarks]
[9:15 am] to [10:15 am] Session Chair: Pengjun Wan Illinois Institute of Technology	[Keynote Speaker: Dr. Ding-Zhu Du] Speech Tittle: Secure Scheduling for Barrier Coverage
[10:15 am] to [10:45 am]	[Networking Break]
[10:45 am] to [11:45 am] Session Chair: Yingshu Li Georgia State University	[Keynote Speaker: Dr. Wei Zhao] Speech Tittle: Beyond AlphaGo: Opportunities and Challenges for both IT and non IT Majors
[11:45 am] to [13:30 pm]	[Luncheon]
[13:30 pm] to [15:00 pm] Room 1 Session Chair: Qing Yang University of North Texas	[Session: WN-I: Wireless Networks I] Simultaneous Wireless Information and Power Transfer for Multi-hop Energy-constrained Wireless Networks Shiming He, Kun Xie, Weiwei Chen and Dafang Zhang Optimal Power Scheduling for SIC-based Uplink Wireless Networks with Guaranteed Real-time Performance Chaonong Xu, Kaichi Ma, Yida Xu, and Yongjun Xu Leveraging Scheduling to Minimize the Tardiness of Video Packets Transmission in Maritime Wideband Communication Tingting Yang, Rui Wang, Zhengqi Cui, Jian Zhao and Zhou Su A Novel On-line Association Algorithm in Multiple-AP Wireless LAN Sun Liang, Lei Wang, Qin Zhenquan, Ma Zehao and Zhuxiu Yuan
[13:30 pm] to [15:00 pm] Room 2 Session Chair: Siyao Cheng Harbin Institute of Technology	[Session: SN-I: Sensor Networks I] Scheduling for MU-MIMO Wireless Industrial Sensor Networks Changqing Xia, Xi Jin, Jintao Wang, Linghe Kong and Peng Zeng Spectral Partitioning and Fuzzy C-Means Based Clustering Algorithm for Wireless Sensor Networks Jianji Hu, Songtao Guo, Defang Liu and Yuanyuan Yang

	IEA: An intermittent energy aware platform for ultra-low powered energy harvesting WSN
	Yang Zhang, Hong Gao, Siyao Cheng and Jianzhong Li
	Regionalization Compressive Sensing for Optimizing Lifetime of Sensor Networks
	Hao Yang, Hua Xu and Xiwei Wang
[13:30 pm] to [15:00 pm] Room 3 Session Chair: Wei Yu Towson University	[Session: IoT: Internet of Things] M2HAV: A Standardized ICN Naming Scheme for Wireless Devices in Internet of Things Boubakr Nour, Kashif Sharif, Fan Li, Hassine Moungla and Yang Liu Social D2D Communications Based on Fog Computing for IoT Applications Junjie Yan, Dapeng Wu, Honggang Wang, Dalei Wu and Ruyan Wang Defense Against Advanced Persistent Threats with Expert System for Internet of Things Qing Hu, Shichao Lv, Zhiqiang Shi, Limin Sun and Liang Xiao Multidimensional Trust-Based Anomaly Detection System in Internet of Things Fangyu Gai, Jiexin Zhang, Peidong Zhu and Xinwen Jiang
[15:00 pm] to [15:30 pm]	[Networking Break]
[15:30 pm] to [17:00 pm] Room 1 Session Chair: Tingting Yang Dalian Maritime University	[Session: CN: Cellular Networks] Cooperative Downlink Resource Allocation in 5G Wireless Backhaul Network Yuan Gao, Hong Ao, Zhou Quan, Weigui Zhou, Xiangyang Li, Yunchuan Sun, Su Hu and Li Yi On Enhancing Energy Efficiency via Elastic Cell-Zooming Algorithm in Three-Tier Heterogeneous Wireless Networks Zhu Xiao, Shuangchun Li, Tong Li and Dong Wang Study on the Impulse Radio mmWave for 5G-based Vehicle Position Xuerong Cui and Juan Li

	Detect SIP Flooding Attacks in VoLTE by Utilizing Counting Bloom Filter Mingli Wu, Na Ruan, Shiheng Ma, Haojin Zhu and Weijia Jia
[15:30 pm] to [17:00 pm] Room 2 Session Chair: Wei Li Georgia State University	[Session: CD: Crowd Applications] **A User Incentive-Based Scheme Against Dishonest Reporting in Privacy-Preserving Mobile Crowdsensing Systems** Xinyu Yang, Cong Zhao, Wei Yu, Xianghua Yao and Xinwen Fu **Detecting Flooding DDoS Under Flash Crowds Based On Mondrian Forest** Kun Yang **A 3-layer Method for Analysis of Cooperative Behaviors of Physical Devices in Cyber-Physical Systems** Gang Ren, Pan Deng and Chao Yang
[15:30 pm] to [17:00 pm] Room 3 Session Chair: Hong Li Chinese Academy of Sciences	[Session: DP: Data Protection] **An Attribute-Based Secure and Scalable Scheme for Data Communications in Smart Grids** Chunqiang Hu, Yan Huo, Liran Ma, Hang Liu, Shaojiang Deng and Liping Feng **3P Framework: Customizable Permission Architecture for Mobile Applications** Sujit Biswas, Kashif Sharif, Fan Li and Yang Liu **A Bitcoin-Based Incentive Mechanism for Distributed P2P Applications** Yunhua He, Hong Li, Xiuzhen Cheng, Yan Liu, and Limin Sun **Differentially Private Frequent Itemset Mining from Smart Devices in Local Setting** Zhang Xinyuan, Huang Liusheng, Fang Peng, Wang Shaowei, Zhu Zhenyu and Xu Hongli

[June 20, Tuesday]

[7:00 am] to [8:00 am]	[Registration]
[8:00 am] to [9:00 am] Session Chair: Qun Li	[Keynote Speaker: Dr. Jianzhong Li]

College of William and Mary	Speech Tittle: Data Usability: An Aspect of Big Data Research
[9:00 am] to [10:00 pm] Panel Moderator: Qun Li College of William and Mary	[Panel: Challenges and Directions of Future Wireless Privacy Research] **Panelists: Dr. Ding-Zhu Du, Dr. Jianzhong Li, Dr. Pengjun Wan, Dr. Qun Li, and Dr. Xiuzhen Cheng**
[10:00 am] to [10:30 am]	[Networking Break]
[10:30 am] to [12:00 pm] Room 1 Session Chair: Jiaxing Shang Chongqing University	[Session: SN: Social Networks] **Fair Multi-Influence Maximization in Competitive Social Networks** **Ying Yu, Jinglan Jia, Deying Li and Yuqing Zhu** **Communities Mining and Recommendation for Large-scale Mobile Social Networks** **Ruiguo Yu, Jianrong Wang, Tianyi Xu, Jie Gao, Kunyu Cao and Mei Yu** **Structural Holes Theory-based Influence Maximization in Social Network** **Jinghua Zhu, Xuming Yin and Jinbao Li** **Community Verification with Topic Modeling** **Feng Wang and Ken Orton**
[10:30 am] to [12:00 pm] Room 2 Session Chair: Wei Wang San Diego State University	[Session: WN-II: Wireless Networks II] **Energy-Efficient Contact Detection Model in Mobile Opportunistic Networks** **Yueyue Dou, Feng Zeng and Wenjia Li** **A Novel Collision Analysis for Multiple-Subcarrier Frequency-Domain Contention** **Yu Zeng and Qinglin Zhao** **Wi-Dog: Monitoring School Violence with Commodity WiFi Devices** **Qizhen Zhou, Chenshu Wu and Jianchun Xing** **Modeling of Random Dense CSMA Networks** **Yuhong Sun, Tianyi Song, Honglu Jiang, and** **Jianchao Zheng**
[10:30 am] to [12:00 pm] Room 3 Session Chair: Yunhua He	[Session: PP: Privacy Preservation] **Pricing Privacy Leakage in Location-Based Services**

North China University of Technology	Fenghua Li, Jiawen Liu, Liang Fang, Ben Niu, Kui Geng and Hui Li
	Preserving Privacy in Social Networks Against Label Pair Attacks
	Chenyang Liu, Dan Yin, Hao Li and Wu Yang
	Preserving Local Differential Privacy in Online Social Networks
	Tianchong Gao, Feng Li, Yu Chen and Xukai Zou
	MAIS: Multiple Activity Identification System Using Channel State Information of WiFi Signals
	Chunhai Feng, Sheheryar Arshad and Yonghe Liu
[12:00 pm] to [13:30 pm]	[Luncheon]
[13:30 pm] to [15:00 pm] Room 1 Session Chair: Bin Lin Dalian Maritime University	[Session: SN-II: Sensor Networks II] **A Genetic Algorithm Based Mechanism for Scheduling Mobile Sensors in Hybrid WSNs Applications** Yaqiang Zhang, Zhangbing Zhou, Deng Zhao and Xiao Xue **An Adaptive MAC protocol for Wireless Rechargeable Sensor Networks** Ping Zhong, Yiwen Zhang, Shuaihua Ma, Jianliang Gao and Yingwen Chen **SSD: Signal-Based Signature Distance Estimation and Localization for Sensor Networks** Pengpeng Chen, Yuqing Yin, Shouwan Gao and Qiang Niu **Provably Secure Dual-Mode Publicly Verifiable Computation Protocol in Marine Wireless Sensor Networks** Kai Zhang, Lifei Wei, Xiangxue Li and Haifeng Qian
[13:30 pm] to [15:00 pm] Room 2 Session Chair: Kashif Sharif Beijing Institute of Technology	[Session: VN: Vehicular Networks] **An Efficient Distributed Randomized Data Replication Algorithm in VANETs** Junyu Zhu, Chuanhe Huang, Xiying Fan and Bin Fu **Achieving Secure and Seamless IP Communications for Group-oriented Software Defined Vehicular Networks** Chengzhe Lai, Rongxing Lu and Dong Zheng **QoE Enhancement of Task Scheduling Algorithm for VANET Applications**

	Nan Ding, Shuaihang Nie, Huanbo Gao and Huaiwei Si
	Ratee-based Trust Management System for Internet of Vehicles
	Fangyu Gai, Jiexin Zhang, Peidong Zhu and Xinwen Jiang
[13:30 pm] to [15:00 pm] Room 3 Session Chair: Jian Mao Beihang University	[Session: MA: Mobile Applications]
	AIS: An Inaudible Guider in Your Smartphone
	Xing Zhou, Yang Xu, Wei Yang and Liusheng Huang
	A Case Study of Usable Security: Usability Testing of Android Privacy Enhancing Keyboard
	Zhen Ling, Melanie Borgeest, Chuta Sano, Sirong Lin, Mogahid Fadl, Wei Yu, Xinwen Fu and Wei Zhao
	Measuring the Declared SDK Versions and Their Consistency with API Calls in Android Apps
	Daoyuan Wu, Ximing Liu, Jiayun Xu, David Lo and Debin Gao
	Employing Smartwatch for Enhanced Password Authentication
	Bing Chang, Ximing Liu, Yingjiu Li, Pingjian Wang, Wen-Tao Zhu and Zhan Wang
[15:00 pm] to [15:30 pm]	[Networking Break]
[15:30 pm] to [17:00 pm] Room 1 Session Chair: Jinghua Zhu Heilongjiang University	[Session: LP: Localization and Positioning]
	Design and Realization of An Indoor Positioning Algorithm based on Differential Positioning Method
	Weiqing Huang, Chang Ding, Siye Wang, Junyu Lin, Shaoyi Zhu and Yue Cui
	A Power-Efficient Scheme for Outdoor Localization
	Kang Yao, Hongwei Du, Qiang Ye and Wen Xu
	Accurate Indoor Localization with Multiple Feature Fusion Yalong Xiao, Jianxin Wang, Shigeng Zhang, Haodong Wang and Jiannong Cao
	Near-Field Localization Algorithm Based on Sparse Reconstruction of the Fractional Lower Order Correlation Vector Sen Li, Bin Lin, Bing Li and Rongxi He
[15:30 pm] to [17:00 pm] Room 2 Session Chair: Liran Ma Texas Christian University	[Session: AD: Algorithm and Design]
	Towards Efficient Multimedia Data Disseminating in Mobile Opportunistic Networks
	Peng Liu, Yue Ding, Jia Xu and Tingting Fu

	Wireless Image Relay: Prioritized QoE Scheduling with Simplified Space-Time Coding Mode Selection
	Shuan He and Wei Wang
	Job Scheduling Under Differential Pricing: Hardness and Approximation Algorithms
	Qiuyuan Huang, Jing Zhao, Haohua Du, Jiahui Hou and Xiangyang Li
	Software Defined Routing System
	Gao Xianming, Wang Baosheng and Deng Wenping
[15:30 pm] to [17:00 pm] Room 3 Session Chair: Dongxiao Yu Huazhong University of Science and Technology	[Session: CT: Communication Theory]
	Maximum-Weighted λ-Colorable Subgraph: Revisiting And Applications
	Peng-Jun Wan, Huaqiang Yuan, Xufei Mao, Jiliang Wang and Zhu Wang
	A Study on the Second Order Statistics of κ-μ Fading Channels
	Changfang Chen, Minglei Shu, Yinglong Wang and Nuo Wei
	A Simpler Method to Obtain a PTAS for Connected k-Path Vertex Cover in Unit Disk Graph
	Zhao Zhang, Xiaohui Huang and Lina Chen
	Effective Influence Maximization based on the Combination of Multiple Selectors
	Jiaxing Shang, Hongchun Wu, Shangbo Zhou, Lianchen Liu and Hongbin Tang
[18:00 pm] to [20:00 pm]	Banquet

[June 21, Wednesday]

[8:00 am] to [8:30 am]	[Registration]
[8:30 am] to [10:00 am] Room 1 Session Chair: Xiaoshuang Xing Changshu Institute of Technology	[Session: WN-III: Wireless Networks III]
	Layout Optimization for a Long Distance Wireless Mesh Network: An Industrial Case Study
	Jintao Wang, Xi Jin, Peng Zeng, Zhaowei Wang and Changqing Xia
	Throughput Maximization in Multi-User Cooperative Cognitive Radio Networks

	Lei Lu, Wei Li, Shengling Wang, Rongfang Bie and Bowu Zhang

Load-Balancing Software-Defined Networking through Hybrid Routing

Gongming Zhao, Liusheng Huang, Ziqiang Li and Hongli Xu

A New Greedy Algorithm for Constructing the Minimum Size Connected Dominating Sets in Wireless Networks
Chuanwen Luo, Yongcai Wang, Jiguo Yu, Wenping Chen and Deying Li |
| [8:30 am] to [10:00 am]
Room 2
Session Chair: Yan Huo
Beijing Jiaotong University | [Session: ET: Emerging Topics]

Mobility Intention-based Relationship Inference from Spatiotemporal Data

Feng Yi, Hong Li, Hongtao Wang, Limin Sun and Hui Wen

Development and Performance Evaluation of Filterbank Multicarrier Systems

Su Hu, Yixuan Huang, Chuanxue Jin, Qu Luo, Jin Zhang, Gao Yuan and Xiangyang Li

Supporting Producer Mobility via Named Data Networking in Space-Terrestrial Integrated Networks

Di Liu, Chuanhe Huang, Xi Chen and Xiaohua Jia

A Neural Network Model Based Adaptive Flight Control System

Jiaqi Liang, Wenwen Du and Kai Xing |
| [8:30 am] to [10:00 am]
Room 3
Session Chair: Jin Qian
Taizhou University | [Session: WS: Wireless Security]

Space Power Synthesis-based Cooperative Jamming for Unknown Channel State Information

Xin Fan, Liang Huang, Yan Huo, Chunqiang Hu and Yuqi Tian

Breakdown by Rumors: Vulnerability of D2D Communications from Online Social Networks

Tianyi Pan, Md Abdul Alim, Xiang Li and My T. Thai

A Location Prediction-based Physical Layer Security Scheme for Suspicious Eavesdroppers

Yuqi Tian, Yan Huo, Zhen Li, Qinghe Gao and Tao Jing |

	Security Enhancement via Dynamic Fountain Code for Wireless Multicast Qinghe Du, Wanyu Li and Houbing Song
[10:00 am] to [10:30 am]	[Networking Break]
[10:30 am] to [12:00 pm] Room 1 Session Chair: Chunqiang Hu Chongqing University	[Session: NA: Novel Applications] A HCI Motion Recognition System Based on Channel State Information with Fine Granularity Hao Yang, Licai Zhu and Weipeng Lv Phishing Website Detection Based on CSS Features of Web Pages Jian Mao, Wenqian Tian, Pei Li, Tao Wei and Zhenkai Liang You Can Charge Over the Road: Optimizing Charging Tour in Urban Area Xunpeng Rao, Panlong Yang and Yubo Yan Broadband Communications for High Speed Trains via NDN Wireless Mesh Network Fan Wu, Wang Yang, Runtong Chen and Xinfang Xie
[10:30 am] to [12:00 pm] Room 2 Session Chair: Shengling Wang Beijing Normal University	[Session: CC: Could Computing] CacheRascal: Defending the Flush-Reload Side-channel Attack in PaaS Clouds Weijuan Zhang Distributing Negative Messages in VANET Based on Meet-Table and Cloud Computing Baohua Huang and Wei Cheng TACD: A Three-stage Auction Scheme for Cloudlet Deployment in Wireless Access Network Gangqiang Zhou, Jigang Wu and Long Chen Recognition of Electro-magnetic Information Leakage of Computer Based on Multi-image Blind Deconvolution Shanjing Yang, Jianlin Hu and Weiqing Huang