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研究方向: 边缘计算、网络安全、区块链机制、智能感知网络

主持的科研项目及人才计划项目情况

1. 国家自然科学基金青年项目, 61702366, 基于SDN的感知QoS路由机制研究, 2018/01-2020/12, 26万元, 已完成, 主持
2. 天津市自然科学基金一般项目, 19JCYBJC15800, 软件定义安全架构下异常网络流量测控技术研究, 2019/04-2022/3, 10万元, 在研, 主持
3. 专用集成电路与系统国家重点实验室开放课题, 深度脉冲神经网络模型与算法研究, 2021/05-2022/12, 10万元, 在研, 主持
4. 天津市教委科研计划项目, 2017KJ090, 基于软件定义架构的异常网络流量检测技术, 2017/11-2020/10, 6万元, 在研, 主持
5. 天津市智能计算及软件新技术重点实验室开放课题, TJUT-KLICNST-K20160002, 基于SDN的动态感知QoS路由算法研究, 2017/1-2018/12, 2万元, 已完成, 主持
6. 天津市“131”创新型人才培养工程第三层次人选, 2017-2019
7. 天津市高校“青年后备人才支持计划”

教育经历

2012/3-2016/2, 韩国建国大学, 计算机科学与工程, 博士, Sunyoung Han
2007/3-2009/2, 韩国建国大学, 计算机科学与工程, 硕士, Keecheon Kim
2002/9-2006/7, 重庆邮电大学, 测控技术与仪器系, 学士

代表性研究成果和学术奖励情况

一、期刊论文

- [1] Shimin Sun, X. Zhang, W. Huang, et al. QoS-Based Multicast Routing in Network Function Virtualization-Enabled Software-Defined Mobile Edge Computing Networks[J]. Mobile Information Systems, 2021, 2021(4):1-12.
- [2] Shimin Sun, L. Han, Y. Yan, et al. Two New Classes of Codebooks Asymptotically Achieving the Welch Bound[J]. IEEE Access, 2020.

- [3] **Shimin Sun**, Li Han, Xianshu Jin, Sunyoung Han*, NAPT-based Mobility Service for Software Defined Networks. IEICE Transactions on Information and Systems, 2017, E100-D(5): 38-46 (SCI, EI)
- [4] **Shimin Sun**, Li Han, Sunyoung Han*, GRMR: Greedy Regional Multicast Routing for Wireless Sensor Networks. IEICE Transactions on Information and Systems, 2016, E99-D(1): 21-29 (SCI, EI)
- [5] Li Han, **Shimin Sun***, Yang Yan, Qiuyan Wang, A New Construction of Codebooks Meeting the Levenshtein Bound; IEEE ACCESS; 2020, 8: 77598-77603. (SCI, EI)
- [6] Li Han, **Shimin Sun**, Bokgyu Joo, Xianshu Jin, Sunyoung Han*, QoS-Aware Routing Mechanism in OpenFlow-Enabled Wireless Multimedia Sensor Networks, International Journal of Distributed Sensor Networks, 2016, 12(7):1-11 (SCI, EI)
- [7] Li Han, **Shimin Sun**, Bokgyu Joo, Sunyoung Han*, QoS-Based Path Switching Mechanism in Mobile SCTP, International Journal of Distributed Sensor Networks, 2014, 2014(1) (SCI, EI)
- [8] Ren Yueqiang, Wang Ze, Sun Xiaona, Sun Shimin, A Multi-Element Hybrid Location Recommendation Algorithm for Location Based Social Networks; IEEE ACCESS; 2019, 7:100416-100427. (SCI, EI)

二、会议论文

- [1] **Shimin Sun**, W. Huang, Zhang X , et al. Software Defined Unicast/Multicast Jointed Routing for Real-Time Data Distribution[J]. Springer, Cham, 2020.
- [2] **Shimin Sun**, X. Zhang, W. Huang, et al. A passive DDoS attack detection approach based on abnormal analysis in SDN environment, Journal of Physics:Conference Series, 2021/07/30-2021/08/01.
- [3] **Shimin Sun**, Li Han, Sunyoung Han*, Secure IP Mobility Support in Software Defined Networks, Mobile and Wireless Technology 2015, Springer Berlin Heidelberg, pp: 127-136, Bangkok, Thailand, 2015.06.
- [4] **Shimin Sun**, Li Han, Sungchol Cho, Sunyoung Han*, Junfeng Wang, Béatrice Paillassa, Performance Optimization of Media Distribution in Overlay Networks Using OpenFlow, The International Conference on Information Networking (ICOIN 2014), Phuket, Thailand, 2014.2.10-2.12
- [5] **Shimin Sun**, Li Han, Sungchol Cho, Junfeng Wang, Buseung Cho, Sunyoung Han*, Performance Optimization of Multicast Relay in Overlay Network Using OpenFlow, IEICE Technical Report, 113(240): 57-61, 2013. 10.10-10.11
- [6] **Shimin Sun**, Jonghyun Kim, Yunho Jung, Keecheon Kim, Zone-based Greedy Perimeter Stateless Routing for VANET, IEEE International

Conference on Information Networking, pp.1-3, Chiang Mai, Thailand, 2009. 1. 21-1. 24

[7] Sangwook Bae, **Shimin Sun**, Li Han, Sunyoung Han*, and Béatrice Paillassa, Design and Deployment of IPv6 Address Management System on Research Networks, 2014 IEEE Region 10 Conference (TENCON), Bangkok, Thailand, 2014. 10. 22-10. 25