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主要研究领域为计算机网络、大数据、无线网络与移动计算、SDN/NFV。主持国家自然科学基金二项，主持湖南省自然科学基金重点基金一项，主持教育部博士点基金一项，作为骨干人员参与国家 863 计划，973 项目，国防基础科研项目，国家科技支撑计划项目。荣获 2009 年布鲁塞尔世界创新科技博览会铜

奖，2010 年长沙市第十一届自然科学优秀学术论文一等奖，2006 年湖南省科学技术进步奖二等奖，2016 年湖南省科学技术进步奖二等奖。在计算机重点期刊和国际旗舰会议已发表高水平论文 80 余篇，包括《IEEE/ACM Transactions on Networking》，《IEEE Transactions on Mobile Computing》，《IEEE Transactions on Computers》，《IEEE Transactions on Wireless Communications》，《IEEE Transactions on Services Computing》，INFOCOM，ICDCS，SECON，IWQoS，MASS 等。一篇论文获得 ICDCS2016 最优论文提名，该会议录用率仅 16.7%，最优论文提名比率 3/368 (0.8%)。申请国家发明专利 30 项(已经授权 16 项)，获得国家软件著作权登记 5 项。

#### 科研项目

- [1] 湖南省青年骨干教师，2015.1-2017.12
- [2] 基于矩阵填充的软件定义网络流量矩阵测量方法研究，国家自然科学基金(61572184)，2016-01~2019.12，主持
- [3] 基于张量填充的网络测量数据补全和异常检测，湖南省杰出青年基金（2017JJ1010），2017-01~2020.12，主持
- [4] 多跳无线 mesh 网络中协作通信关键技术研究，国家自然科学基金(61003305)，2011.1-2013.12，主持
- [5] 基于协作通信的无线 mesh 网络关键技术研究. 博士点基金(20100161120022)，2011.1-2013.12，主持
- [6] 无线 mesh 网络中分簇协作路由关键技术研究. 湖南省自然科学基金重点基金(11JJJA003)，2011.1-2013.12，主持
- [7] 异构无线网络上普适无缝互联网接入的安全解决方案 (Security Solutions for Ubiquitous and Seamless Internet Access over Heterogeneous Wireless Networks), 香港创新基金项目 (ITF: HK Technology Cooperation Funding Scheme), 2009.4-2011.4, 主研人员
- [8] 先进异构无线网络中的无间通信与移动(Seamless Communication and Mobility in Advanced Heterogeneous Wireless Networks), 香港创新基金项目(ITF: HK Technology Cooperation Funding Scheme) (GHP/049/06), 2007.4-2009.10, 主研人员, 项目经理

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- [3]. **Kun Xie**, Xiaocao Li, Xin Wang, Jiannong Cao, Gaogang Xie, Jigang Wen, Dafang Zhang, Zheng Qin, On-line Anomaly Detection with High Accuracy, submitted to IEEE/ACM Transactions on Networking, **IEEE/ACM Transactions on Networking**, accept, (CCF A, SCI 二区)
- [4]. **Kun Xie**, Lele Wang, Xin Wang, Gaogang Xie, Jigang Wen, Low Cost and High Accuracy Data Gathering in WSNs with Matrix Completion, **IEEE Transactions on Mobile Computing**, DOI:10.1109/TMC.2017.2775230(CCF A, SCI 二区)
- [5]. **Kun Xie**, Xiaocan Li, Xin Wang, Gaogang Xie, Jigang Wen, Dafang Zhang, Graph based Tensor Recovery For Accurate Internet Anomaly Detection, **IEEE INFOCOM 2018 (CCF A**, acceptance rate of 19.2%)
- [6]. **Kun Xie**, Heng Tao, Xin Wang, Gaogang Xie, Jigang Wen, Jiannong Cao, Zheng Qin, Divide And Conquer For Fast SRLG Disjoint Routing, **IEEE/IFIP DSN 2018 (CCF B**, acceptance rate of 28%)
- [7]. **Kun Xie**, Yuxiang Chen, Xin Wang, Gaogang Xie, Jigang Wen, Dafang Zhang, Local Tensor Completion Based on Locality Sensitive Hashing, **IEEE ICDE 2018**
- [8]. Thabo Semong, **Kun Xie**, Xuhui Zhou, Hemant Kumar Singh, Zhetao Li, Delay Bounded Multi-Source Multicast in Software-Defined Networking, **Electronics**, 2018,7(1)

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- [16].Lele Wang, **Kun Xie**, Thabo Semong, Huibin Zhou, Missing Data Recovery Based On Tensor-CUR Decomposition, **IEEE Access**, accept,(SCI)
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## Others

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