王 盟

计算机科学与技术专业博士研究生

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教育背景

12/19–至今 **国家留学基金委公派研究生, 明尼苏达大学双城校区**, 计算机科学与工程系.
研究方向: 高性能NFV系统
联合培养博士项目, 导师是Zhi-Li Zhang (IEEE Fellow)

09/16–至今 **硕博连读, 北京邮电大学**, 网络技术研究院, 网络与交换技术国家重点实验室.
研究方向: NFV资源映射, 网络切片系统, 服务计算
1年硕士+ 4年博士, 预计2021年6月毕业, 导师是陈俊亮院士和程渤教授

09/12–06/16 **本科, 北京交通大学**, 计算机与信息技术学院.
前两年在理学院理科试验班培养, 后两年在计算机与信息技术学院培养

技术能力

编程语言 Java, C/C++, Python

熟悉平台 DPDK, Openstack, Kubernetes, Hadoop, Spark

研究课题

12/19–now **High performance NFV systems**.
NFV execution model: 分析不同NFV运行模型在多核架构中的性能, 扩展性和灵活性
NFV profiling architecture: 根据系统架构和NF特征, 生成特征流量测试NF性能

09/18–12/19 **NFV resource allocation**.
Availability guarantee: 研究可用性和备份模型, 提升可用性, 减少资源消耗
Placement algorithm: 设计高效的VNF放置算法, 计算优化方案部署VNF链

09/16–09/18 **Network slicing creation systems**.
SDN/NFV-based: 集成SDN/NFV实现网络切片系统
SOA-based: 采用面向服务的架构优化网络切片生成系统

11/15–06/16 **Parallel collaborative filtering recommendation on Spark platform**.
本科毕业设计: 在Spark平台实现协同过滤推荐算法的并行化

获奖荣誉

12/19-至今 国家公派留学奖学金(联合培养博士项目)

01/19-10/20 北京邮电大学博士创新基金

10/16-10/19 学业奖学金

发表论文

Meng Wang, Bo Cheng, and Junliang Chen. Poster: A linear programming approach for SFC placement in mobile edge computing. In *The 25th Annual International Conference on Mobile Computing and Networking (MobiCom)*, pages 1–3. 2019, (CCF A).

Meng Wang, Bo Cheng, and Junliang Chen. An efficient service function chaining placement algorithm in mobile edge computing. *ACM Transactions on Internet Technology (TOIT)*, (CCF B).

Meng Wang, Bo Cheng, and Junliang Chen. Poster: A SDN/NFV-based network slicing creation system. In *International Conference on Service-Oriented Computing (ICSOC)*, pages 566–568. 2019, (CCF B).

Meng Wang, Bo Cheng, and Junliang Chen. Joint availability guarantee and resource optimization of virtual network function placement in data center networks. *IEEE Transactions on Network and Service Management (TNSM)*, (CCF C).

Meng Wang, Bo Cheng, Wendi Feng, and Junliang Chen. An efficient service function chain placement algorithm in a MEC-NFV environment. In *2019 IEEE Global Communications Conference (GLOBECOM)*, pages 1–6. 2019, (CCF C).

Meng Wang, Bo Cheng, Biyi Li, and Junliang Chen. Service function chain composition and mapping in NFV-enabled networks. In *2019 IEEE World Congress on Services (SERVICES)*, volume 2642, pages 331–334, 2019.

Meng Wang, Bo Cheng, Xuan Liu, Yi Yue, Biyi Li, and Junliang Chen. Poster: A SDN/NFV-based IoT network slicing creation system. In *The 24th Annual International Conference on Mobile Computing and Networking (MobiCom)*, pages 666–668. 2018, (CCF A).

Meng Wang, Bo Cheng, Shuai Zhao, Biyi Li, Wendi Feng, and Junliang Chen. Availability-aware service chain composition and mapping in NFV-enabled networks. In *2019 IEEE International Conference on Web Services (ICWS)*, pages 107–115. 2019, (CCF B).