

Wendi Feng

Associate Professor, Master Advisor

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RESEARCH INTERESTS

Broadly computer networking, cloud/edge computing. Including various techniques to improve the performance of packet processing systems; security enhancement strategies for software-defined networks, and efficient network measurement algorithms and architectures.

WORK EXPERIENCES

Beijing Information Science and Technology University Associate Professor, Master Advisor	Beijing, China 2023–Today
Beijing Information Science and Technology University Lecturer, Master Advisor	Beijing, China 2021–2022
University of Minnesota – Twin Cities Research Assistant	Minneapolis, USA 2018–2020

EDUCATION

Beijing University of Posts and Telecommunications Ph.D. in Computer Science Advisor: Junliang Chen (CAS/CAE Member, 中国工程院与中国科学院两院院士)	Beijing, China 2016–2021
University of Minnesota – Twin Cities CSC-supported Co-advised Ph.D. Student in SDN/NFV, Advisor: Zhi-Li Zhang (IEEE Fellow)	Minneapolis, USA 2018–2020
Halmstad University Lecture in FAT File System, Instructor: Mattias Weckstén	Halmstad, Sweden 2014
Beijing Information Science and Technology University B.E. in Computer Science and Engineering, GPA:3.73/4.00 – Ranked as the first in the major, and graduate with the highest distinction.	Beijing, China 2012–2016

FUNDINGS

National Natural Science Foundation of China – Youth Program PI <i>State Management Methods for High Throughput NFV Systems on a Single Server</i>	300,000 RMB 2025–2027
R&D Program of Beijing Municipal Education Commission PI <i>SLO-Oriented High Performance Network Measurement Methods and Systems</i>	150,000 RMB 2023–2025
Open Foundation of State key Laboratory of Networking and Switching Technology (Beijing University of Posts and Telecommunications)	30,000 RMB

PI	2023–2025
<i>Key Enablers in Accelerating High Performance Network Function Service Systems</i>	
Grants from NDSEC	390,000 RMB
PI	2022–2024
<i>High Performance Network Encryption Systems over Dataplane</i>	
National Key R&D Program of China	4,000,000 RMB
Participation	2022–2025
<i>Theory and Methods for Detecting Illegal Crypto-currency Secret Mining on Backbone Networks</i>	

AWARDS

- YOUNG ELITE SCIENTIST SPONSORSHIP PROGRAM BY BAST 2024–2026
- YOUNG BACKBONE SUPPORTING PROGRAM BY BISTU 2024–2025
- DISTINGUISHED BACHELOR THESIS ADVISOR BY BISTU 2024–2025

SELECTED PUBLICATIONS

- [1] X. Dou, W. Feng, and J. Liu, “GRAPE: gpu-accelerated zero-copy iot measurement data compression transmission”, in *Proceedings of the 8th Asia-Pacific Workshop on Networking, APNet 2024, Sydney, Australia, August 3-4, 2024*, ACM, 2024, pp. 192–193.
- [2] W. Feng, K. Liu, S. Sun, B. Cheng, and W. Zhang, “Seraph: Towards secure and efficient multi-controller authentication with (t,n)-threshold signature in multi-domain SDWAN”, *J. Netw. Comput. Appl.*, vol. 229, p. 103920, 2024.
- [3] J. Liu, W. Feng, and X. Dou, “Sketchlet: Partitioning traffic for sketch with clustering on multi-core commodity servers”, in *Proceedings of the 8th Asia-Pacific Workshop on Networking, APNet 2024, Sydney, Australia, August 3-4, 2024*, ACM, 2024, pp. 198–199.
- [4] W. Feng, C. Liu, B. Cheng, J. Chen, and Z. Wan, “An end-host-importance-aware secure service-enabled hybrid SDN deployment”, *IEEE Trans. Netw. Serv. Manag.*, vol. 20, no. 2, pp. 2056–2070, 2023.
- [5] W. Feng, C. Liu, and J. Chen, “Batchsketch: A ”network-server” aligned solution for efficient mobile edge network sketching”, in *ACM MobiCom ’22: The 28th Annual International Conference on Mobile Computing and Networking, Sydney, NSW, Australia, October 17 - 21, 2022*, ACM, 2022, pp. 811–813.
- [6] Z. Guo, S. Dou, S. Liu, W. Feng, W. Jiang, Y. Xu, and Z. Zhang, “Maintaining control resiliency and flow programmability in software-defined wans during controller failures”, *IEEE/ACM Trans. Netw.*, vol. 30, no. 3, pp. 969–984, 2022.
- [7] Z. Wu, Y. Zhang, W. Feng, and Z. Zhang, “Nflow and MVT abstractions for NFV scaling”, in *IEEE INFOCOM 2022 - IEEE Conference on Computer Communications, London, United Kingdom, May 2-5, 2022*, IEEE, 2022, pp. 180–189.
- [8] W. Feng, C. Liu, B. Cheng, and J. Chen, “Secure and cost-effective controller deployment in multi-domain SDN with baguette”, *J. Netw. Comput. Appl.*, vol. 178, p. 102969, 2021.
- [9] W. Feng, Z. Guo, C. Liu, Y. Zheng, M. Wang, B. Cheng, and J. Chen, “BAGUETTE: towards a secure and cost-effective switch upgrade in hybrid software-defined networks”, in *2020 IEEE International Conference on Communications, ICC 2020, Dublin, Ireland, June 7-11, 2020*, IEEE, 2020, pp. 1–6.
- [10] W. Feng, Z. Zhang, C. Liu, and J. Chen, “Clé: Enhancing security with programmable dataplane enabled hybrid SDN”, in *Proceedings of the 15th International Conference on emerging Networking EXperiments and Technologies, CoNEXT 2019, Companion Volume, Orlando, FL, USA, December 9-12, 2019*, ACM, 2019, pp. 76–77.