

Selected Papers

- [1] Bangwen Deng and **Wenfei Wu***. “**NFOpt: Eliminating Redundant Logic in NF Programs using Operation-Time Configurations**”. In: *the 2021 IEEE International Conference on Computer Communications*. INFOCOM '21. 2021.
- [2] Yongchao He, **Wenfei Wu***, Xuemin Wen, Haifeng Li, and Yongqiang Yang. “**Scalable On-Switch Rate Limiters for the Cloud**”. In: *the 2021 IEEE International Conference on Computer Communications*. INFOCOM '21. 2021.
- [3] Hongyi Huang, **Wenfei Wu***, Yongchao He, Bangwen Deng, Ying Zhang, Yongqiang Xiong, Guo Chen, Yong Cui, and Peng Cheng. “**NFD: A Development Framework for Cross-Platform Network Functions**”. In: *the 2021 IEEE International Conference on Computer Communications*. INFOCOM '21. 2021.
- [4] Ming Sun, Ya Su, Shenglin Zhang, Junliang Tang, Yuanpu Cao, Yuqing Liu, **Wenfei Wu***, Dan Pei, Yongsu Zhang, and Xiaozhou Liu. “**CTF: Anomaly Detection in High-Dimensional Time Series with Coarse-to-Fine Model Transfer**”. In: *the 2021 IEEE International Conference on Computer Communications*. INFOCOM '21. 2021.
- [5] Wenfei Wu et al. “**ATP: In-Network Aggregation for Multi-Tenant Learning**”. In: *One-Shot Revision in the submission of the 18th USENIX Symposium on Networked Systems Design and Implementation*. NSDI '21 spring. 2021.
- [6] Harsha Sharma, **Wenfei Wu***, and Bangwen Deng. “**Symbolic Execution for Network Functions with Time-Driven Logic**”. In: *Proceedings of the 2020 Symposium on Modelling, Analysis, and Simulation of Computer and Telecommunication Systems*. MASCOTS '20. Google Scholar Citation 0. 2020.
- [7] **Wenfei Wu**, Keqiang He, and Aditya Akella. “**Perfsight: Performance diagnosis for software dataplanes**”. In: *Proceedings of the 2015 ACM Conference on Internet Measurement Conference*. IMC '15. Google Scholar Citation 30. 2015.
- [8] **Wenfei Wu**, Guohui Wang, Aditya Akella, and Anees Shaikh. “**Virtual network diagnosis as a service**”. In: *Proceedings of the 4th annual Symposium on Cloud Computing*. SoCC '13. Google Scholar Citation 33. 2013.

Conference Papers

- [1] Bangwen Deng and **Wenfei Wu***. “**NFOpt: Eliminating Redundant Logic in NF Programs using Operation-Time Configurations**”. In: *the 2021 IEEE International Conference on Computer Communications*. INFOCOM '21. 2021.
- [2] Yongchao He, **Wenfei Wu***, Xuemin Wen, Haifeng Li, and Yongqiang Yang. “**Scalable On-Switch Rate Limiters for the Cloud**”. In: *the 2021 IEEE International Conference on Computer Communications*. INFOCOM '21. 2021.
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- [4] Ming Sun, Ya Su, Shenglin Zhang, Junliang Tang, Yuanpu Cao, Yuqing Liu, **Wenfei Wu***, Dan Pei, Yongsu Zhang, and Xiaozhou Liu. “**CTF: Anomaly Detection in High-Dimensional Time Series with Coarse-to-Fine Model Transfer**”. In: *the 2021 IEEE International Conference on Computer Communications*. INFOCOM '21. 2021.

- [5] Bangwen Deng, **Wenfei Wu***, and Linhai Song. “**Redundant Logic Elimination in Network Functions**”. In: *Proceedings of the 2020 Symposium on SDN Research*. SOSR '20. Google Scholar Citation 0. 2020.
- [6] Qingxiu Liu, **Wenfei Wu***, Qingsong Liu, and Qun Huang. “**T2DNS: A Third-Party DNS Service with Privacy Preservation and Trustworthiness**”. In: *Proceedings of the 29th International Conference on Computer Communications and Networks*. ICCCN '20. Google Scholar Citation 0. 2020.
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- [9] Yimin Jiang, Yong Cui, **Wenfei Wu**, Zhe Xu, Jiahua Gu, K. K. Ramakrishnan, Yongchao He, and Xuehai Qian. “**SpeedyBox: Low-Latency NFV Service Chains with Cross-NF Runtime Consolidation**”. In: *Proceedings of the 39th IEEE International Conference on Distributed Computing Systems*. ICDCS '19. Google Scholar Citation 6. 2019.
- [10] Junfeng Li, Dan Li, **Wenfei Wu**, K. K. Ramakrishnan, Jinkun Geng, Fei Gui, Fanzhao Wang, and Kai Zheng. “**Sphinx: A Transport Protocol for High-Speed and Lossy Mobile Networks**”. In: *Proceedings of the 38th IEEE International Performance Computing and Communications Conference*. IPCCC '19. Google Scholar Citation 0. 2019.
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- [13] Qingmei Ren, Yong Cui, **Wenfei Wu**, Changfeng Chen, Yuchi Chen, Jiangchuan Liu, and Hongyi Huang. “**Improving Quality of Experience for Mobile Broadcasters in Personalized Live Video Streaming**”. In: *2018 IEEE/ACM 26th International Symposium on Quality of Service*. IWQoS '18. Google Scholar Citation 1. 2018.
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- [15] Anubhavnidhi Abhashkumar, Joon-Myung Kang, Sujata Banerjee, Aditya Akella, Ying Zhang, and **Wenfei Wu**. “**Supporting Diverse Dynamic Intent-based Policies using Janus**”. In: *Proceedings of the 13th ACM International Conference on emerging Networking Experiments and Technologies*. CoNEXT '17. Google Scholar Citation 18. 2017.
- [16] Anubhavnidhi Abhashkumar, Jeongkeun Lee, Jean Tourrilhes, Sujata Banerjee, **Wenfei Wu**, Joon-Myung Kang, and Aditya Akella. “**P5: Policy-driven optimization of P4 pipeline**”. In: *Proceedings of the 2017 Symposium on SDN Research*. SOSR '17. Google Scholar Citation 15. 2017.
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- [29] Kai Chen, Chuanxiong Guo, Haitao Wu, Jing Yuan, Zhenqian Feng, Yan Chen, Songwu Lu, and **Wenfei Wu**. “**Generic and Automatic Address Configuration for Data Center Networks**”. In: *Proceedings of the ACM SIGCOMM 2010 Conference*. SIGCOMM ’10. Google Scholar Citation 71. 2010.
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- [1] **Wenfei Wu** and Ying Zhang. “**Network Function Modeling and Its Applications**”. In: *IEEE Internet Computing* (2017). Google Scholar Citation 3.

- [2] Kai Chen, Chuanxiong Guo, Haitao Wu, Jing Yuan, Zhenqian Feng, Yan Chen, Songwu Lu, and **Wenfei Wu**. “**DAC: generic and automatic address configuration for data center networks**”. In: *IEEE/ACM Transactions on Networking* (2012). Google Scholar Citation 33.

Patents

- [1] **Wenfei Wu**, Yongchao He, Xuemin Wen, and Haifeng Li. “**Design and Implementation of Rate Limiters on Programmable Switches**”. In: (2019). Chinese Patent Application.
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- [6] Ying Zhang, **Wenfei Wu**, and Sujata Banerjee. “**Selectively monitoring a network of network function chains based on probability of service level agreement violation**”. In: (2018). US Patent 10491528.

Posters

- [1] Hongyi Huang and **Wenfei Wu**. “**ART: Learning Operation Tree Patterns for Cloud Remediation**”. In: *Proceedings of the 15th European Conference on Computer Systems*. EuroSys Poster ’20. 2020.
- [2] Yongchao He and **Wenfei Wu**. “**Fully Functional Rate Limiter Design on Programmable Hardware Switches**”. In: *Proceedings of the ACM SIGCOMM 2019 Conference*. SIGCOMM Poster ’19. 2019.
- [3] Hongyi Huang and **Wenfei Wu**. “**NFD: Using Behavior Models to Develop Cross-Platform NFs**”. In: *Proceedings of the ACM SIGCOMM 2019 Conference*. SIGCOMM Poster ’19. 2019.
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- [8] **Wenfei Wu**, Guohui Wang, Aditya Akella, and Anees Shaikh. “**Virtual network diagnosis as a service**”. In: *Proceedings of 2014 Open Networking Summit*. ONS Poster ’14. 2014.
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