

Peer-Reviewed

1. **Lixing Song**, A. Mohammed, and A. Striegel. A Passive Client Side Control Packet-based WiFi Traffic Characterization Mechanism. In: *54th IEEE International Conference on Communications (ICC 2020)*, Dublin, Ireland, 7-11 June 2020. To Appear. 2020, pp.1–7.
2. **Lixing Song** and A. Striegel. A Lightweight Scheme for Rapid and Accurate WiFi Path Characterization. In: *27th International Conference on Computer Communication and Networks, ICCCN 2018, Hangzhou, China, July 30 - August 2, 2018*. **Invited**. 2018, pp.1–9. DOI: 10.1109/ICCCN.2018.8487433. <https://doi.org/10.1109/ICCCN.2018.8487433>.
3. **Lixing Song** and A. Striegel. SEWS: A Channel-Aware Stall-Free WiFi Video Streaming Mechanism. In: *Proceedings of the 28th Workshop on Network and Operating Systems Support for Digital Audio and Video*. NOSSDAV'18. Amsterdam, Netherlands: ACM, 2018. ISBN: 978-1-4503-5772-2/18/06. DOI: 10.1145/3210445.3210449. <https://doi.org/10.1145/3210445.3210449>.
4. D. Y. Zhang, **Lixing Song**, Q. Li, Y. Zhang, and D. Wang. StreamGuard: A Bayesian Network Approach to Copyright Infringement Detection Problem in Large-scale Live Video Sharing Systems. In: *IEEE International Conference on Big Data, Big Data 2018, Seattle, WA, USA, December 10-13, 2018*. 2018, pp.901–910. DOI: 10.1109/BigData.2018.8622306. <https://doi.org/10.1109/BigData.2018.8622306>.
5. **Lixing Song** and A. Striegel. Leveraging Frame Aggregation for Estimating WiFi Available Bandwidth. In: *14th Annual IEEE International Conference on Sensing, Communication, and Networking, SECON 2017, San Diego, CA, USA, June 12-14, 2017*. 2017, pp.1–9. DOI: 10.1109/SAHCN.2017.7964908. <https://doi.org/10.1109/SAHCN.2017.7964908>.
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8. **Lixing Song** and A. Striegel. “FMNC - Rapid and Accurate WiFi Characterization: Demo”. In: *Proceedings of the 22nd Annual International Conference on Mobile Computing and Networking, MobiCom 2016, New York City, NY, USA, October 3-7, 2016*. 2016, pp.499–500. DOI: 10.1145/2973750.2985619. <http://doi.acm.org/10.1145/2973750.2985619>.
9. **Lixing Song**, S. Wu, and H. Wang. SIMPLEX: Symbol-Level Information Multiplex. *IEEE Internet of Things Journal* 3(5) (2016), 757–766.
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12. Y. Zhu, C. Tang, **L. Song**, S. Wu, and S. Biaz. Analytical and comparative investigation of 60 GHz wireless channels. *Telecommunication Systems* 60(1) (2015), 179–186.
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14. C. Tang, **L. Song**, J. Balasubramani, S. Wu, S. Biaz, Q. Yang, and H. Wang. Comparative Investigation on CSMA/CA-Based Opportunistic Random Access for Internet of Things. *IEEE Internet of Things Journal* 1(2) (2014), 171–179.
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Thesis

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Intellectual Property

1. A. Striegel and **Lixing Song**. “Systems and methods for rapidly estimating available bandwidth in a WiFi link”. Patent US Patent 10,383,002 (US). Aug. 2019.
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3. **Lixing Song** and A. Striegel. “Novel Technique for Client-Side Passive Detection of WiFi Access Point Load”. Copyright 2016 Notre Dame (US). 2016.