

Refereed Journal Publications

1. Shuo Wan, J. Lu, P. Fan, and K. B. Letaief, "Towards Big data processing in IoT: Path planning and resource management of UAV base stations in mobile-edge computing system," *IEEE Internet of Things Journal*, to appear.
2. Y. Yu, C. Zhang, W. Wang, J. Zhang, and K. B. Letaief, "Towards dependency-aware cache management for data-parallel applications," *IEEE Transactions on Cloud Computing*, to appear.
3. Ke Xiong, P. Fan, Z. Ding, and K. B. Letaief, "Secrecy energy efficiency in multi-antenna SWIPT networks with dual-Layer PS receivers," *IEEE Transactions on Wireless Communications*, to appear.
4. Jingxian Liu, K. Xiong, Y. Lu, P. Fan, Z. Zhong, K. B. Letaief, "SWIPT-enabled full-duplex NOMA networks with full and partial CSI," *IEEE Transactions on Green Communications and Networking*, to appear.
5. Ruihong Jiang, K. Xiong, P. Fan, Z. Zhang, and K. B. Letaief, "Information-energy region for SWIPT networks in mobility scenarios," *IEEE Transactions on Vehicular Technology*, to appear.
6. Yuan Liu, Ke. Xiong, Q. Ni, P. Fan, and K. B. Letaief, "UAV-assisted wireless powered cooperative mobile edge computing: joint offloading, CPU control and trajectory optimization," *IEEE Internet of Things Journal*, vol. 7, no. 4, pp. 2777-2790, Apr. 2020.
7. Xiangyu Yang, S. Hua, Y. Shi, H. Wang, J. Zhang, and K. B. Letaief, "Sparse optimization for green edge AI inference," *Journal of Communications and Information Networks*, vol. 1, no. 1, pp. 1-15, Mar. 2020.
8. J. Zhang and K. B. Letaief, "Mobile edge intelligence and computing for the Internet of Vehicles," *Proceedings of the IEEE*, vol. 108, no. 2, pp. 246-261, Feb. 2020.
9. Y. Dong, Z. Chen, S. Liu, P. Fan, and K. B. Letaief, "Age-upon-decisions minimizing update and decision scheduling in Internet of Things: To be random or to be deterministic?," *IEEE Internet of Things Journal*, vol. 7, no. 2, pp. 1081-1097, Feb. 2020.
10. Yinghao Yu, W. Wang, R. Huang, J. Zhang, and K. B. Letaief, "Achieving load-balanced, redundancy-free cluster caching with selective partition," *IEEE Transactions on Parallel and Distributed Systems*, vol. 31, no. 2, pp. 439-454, Feb. 2020.
11. J. Zhang, X. YU, and K. B. Letaief, "Hybrid beamforming for 5G and beyond millimeter-wave Systems: A holistic view," *IEEE Open Journal of the Communications Society*, vol. 1, pp. 77-91, Jan. 2020.
12. Yifei Shen, Y. Shi, J. Zhang, and K. B. Letaief, "LORM: Learning to optimize for resource management in wireless networks with few training samples," *IEEE Transactions on Wireless Communications*, vol. 19, no. 1, pp. 665-679, Jan. 2020.
13. K. B. Letaief, W. Chen, Y. Shi, J. Zhang, and Y-J Zhang, "The roadmap to 6G: AI empowered wireless networks," *IEEE Communications Magazine*, vol. 57, no. 8, pp. 84-90, Aug. 2019.[†]
14. Tao Jiang, Y. Shi, J. Zhang, and K. B. Letaief, "Joint activity detection and channel estimation for IoT networks: Phase transition and computation-estimation tradeoff," *IEEE Internet of Things Journal*, vol. 6, no. 4, pp. 6212-6225, Aug. 2019.
15. X. Yu, J. Zhang, and K. B. Letaief, "Doubling phase shifters for efficient hybrid precoding in millimeter-wave multiuser OFDM systems," *Journal of Communications and Information Networks*, vol. 4, no. 2, pp. 51-67, Jul. 2019.
16. H. Zheng, K. Xiong, P. Fan, and K. B. Letaief, "Fog-assisted multi-user SWIPT networks: Local computing or offloading," *IEEE Internet of Things Journal*, vol. 6, no. 3, pp. 5246-5264, Jun. 2019.
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19. Y. Lu, K. Xiong, P. Fan, Z. Ding, Z. Zhong, and K. B. Letaief, "Global Energy Efficiency in Secure MISO SWIPT Systems With Non-Linear Power-Splitting EH Model," *IEEE Journal on Selected Areas in Communications*, vol. 37, no. 1, pp. 216-232, Jan. 2019.
20. X. Yu, C. Li, J. Zhang, M. Haenggi, and K. B. Letaief, "A unified framework for the tractable analysis of multi-antenna wireless networks," *IEEE Transactions on Wireless Communications*, vol. 17, no. 12, pp. 7965-7980, Dec. 2018.
21. S. Liu, R. She, P. Fan, and K. B. Letaief, "Non-parametric message importance measure: Storage code design and transmission planning for big data," *IEEE Transactions on Communications*, vol. 66, no. 11, pp. 5181-5196, Nov. 2018.
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23. S. Wan, J. Lu, P. Fan, and K. B. Letaief, "Information theory in formation control: An error analysis to multi-robot formation," *Entropy*, vol. 20, no. 8, pp. 618-633, Aug. 2018.
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[†] Ranked among the top 3 most popular papers of all ever published papers in this venue during the 1st quarter of 2020.

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