

## Selected Journal Publications

1. F. Guo, X. Wang, M Song, Y. Wei, O. Ormond and M Collier, "[Greening the NetFPGA Reference Router](#)", *Energies* 2016, 9(7), 500; doi:10.3390/en9070500.
2. S. Hu, C. Tang, F. Liu, X. Wang, "[A Distributed and Efficient System Architecture for Smart Home](#)", *International Journal of Sensor Networks*, Vol. 20, No. 2, 2016. pp.110-130.
3. YL Wang, YF Wei, YL Teng, M Song, XJ Wang, "[Joint Routing and Resource Management in Energy Harvesting Aided Wireless Mesh Backhaul Networks](#)", *Journal of Internet Technology*, Vol. 16 No. 6, pp.1121-1131 (2015/11)
4. D. Yuan, M. Song, Y. Teng, D. Ma Ding, X. Wang, G. Lu, "[QoE-oriented resource allocation for multiuser-multiservice femtocell networks](#)", *China Communications*, Vol12 , Issue 10, Oct. 2015. pp. 27 – 41.
5. S. Hu, F Liu, C Tang, X Wang, H Zhou, "[Assessing Chinese campus building energy performance using fuzzy analytic network process](#)", *Journal of Intelligent & Fuzzy Systems* 29 (2015), pp. 2629–2638.
6. Y. Zhou , G. Xu, Y. Wang, X. Wang, "[Chaotic map-based time-aware multi-keyword search scheme with designated server](#)", *Wireless Communications and Mobile Computing*, Dec 2015.
7. X. Wang, B. Liu, J. Jiang, Y. Xu, Y. Wang, X. Wang, "[Kangaroo: Accelerating String Matching by Running Multiple Collaborative Finite State Machines](#)", *IEEE J. Sel. Areas Commun. - Special Issue on Deep Packet Inspection: Algorithms, Hardware, and Applications*, vol. 32, no. 10, Oct. 2014.
8. X. Wang, B. Cronin, "[TCP/IP Reassembly in Network Intrusion Detection and Prevention Systems](#)", *International Journal of Information Security and Privacy*, 8(3), 63-76, July-September 2014.
9. C. Sun, W. Wang, Y. Zhang, X. Wang, "[Distributed 2-hop proportional fair resource allocation in LTE-Advanced networks](#)", *Wireless Communications and Mobile Computing*, 2014, DOI: 10.1002/wcm.2517.
10. X. Zheng, X. Wang, "[Comparative Study of Power Consumption of a NetFPGA-Based Forwarding Node in Publish-Subscribe Internet Routing](#)", *Computer Communications*, Elsevier, Vol. 44, 15 May 2014, pp. 36–43.
11. A. Kennedy, X. Wang, "[Ultra-High Throughput Low-Power Packet Classification](#)", *IEEE Trans. Very Large Scale Integr. (VLSI) Syst.*, vol. 22, no. 2, pp. 286 – 299, 11 Feb 2014. Dol: 10.1109/TVLSI.2013.2241798.
12. C. Sun, W. Wang, G. Cui, X. Wang, "[Service-aware bidirectional throughput optimisation route selection strategy in LTE-Advanced networks](#)", *IET Networks*, Jan 2014, DOI: 10.1049/iet-net.2012.0191.
13. L. Kong, Y. Wang, Y. Wei, H. Wang, Yi Man, X. Wang, "[SDEC: Spectrum-aware Degree-ranking-based Energy-Efficient Clustering Algorithm for Multi-hop CRN](#)", *Pervasive Computing and the Networked World, Lecture Notes in Computer Science Volume 8351*, 2014, pp 230-240.
14. Y. Wei, Y. Teng, L. Wang, M. Song, X. Wang, "[QoS Provisioning Energy Saving Dynamic Access Policy for Overlay Cognitive Radio Networks with Hidden Markov Channels](#)", *China Communications*, Vol 10, Issue 12, 2013, pp:92-101.
15. B. Cronin, X. Wang, "[Hardware Acceleration of Regular Expression Repetitions in Deep Packet Inspection](#)", *IET Information Security*, Vol.7, Iss 4, Dec. 2013, pp. 327 – 335.
16. B. Cronin, X. Wang, "[Pattern Overlap in Bit-Parallel Implementation of Regular Expression Repetition Quantifiers](#)", *Int. J. Security and Networks*, Vol. 8, No. 4, 2013, pp.231-238.
17. S. Zheng, C. Yang, E. A. Hendriks, X. Wang, "[Adaptive Weighted Least Squares Svm Based Snowing Model For Image Denoising](#)", *International Journal of Wavelets, Multiresolution and Information Processing (IJWMIP)*, Vol. 11, No. 6, Nov. 2013, World Scientific Publishing Company.
18. X. Wang, Y. Xu, J. Jiang, O. Ormond, B. Liu and X. Wang, "[StriFA: Stride Finite Automata for High-Speed Regular Expression Matching in Network Intrusion Detection Systems](#)", *IEEE Syst. J.*, vol 7, issue 2, pp. 374 – 384, Sept 2013.
19. M. Zhao, T. Luo, C. Yin, G. Yue, X. Wang, "[Dynamic Spectrum Management with Competitive Market Equilibrium](#)", *Journal of Networks*, Vol 8, No 2 (2013), Feb 2013, pp.283-289.
20. M. Zhao, C. Yin, X. Wang, "[A Novel Dynamic Spectrum Access Algorithm for Cognitive Radio Networks](#)", *Journal of Communications and Networks*, Vol. 15, No. 1, Feb 2013, pp.38-44.
21. L. Zhou, B. Geller, X. Wang, B. Zheng, and H.-C. Chao, "[Multi-User Video Streaming over Multiple Heterogeneous Wireless Network - A Distributed, Cross-Layer Design Paradigm](#)," *Journal of Internet Technology*, Vol. 10, No. 1 (2009/01), pp1-12.