

Assistant Professor Yuyang Peng

Faculty of Information Technology

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Academic Qualification

Ph.D. in Electronic Engineering, Chonbuk National University

Teaching Area

Undergraduate Courses:

MA109: Linear Algebra, Probability and Statistics

Graduate Courses:

MIIZ23: Digital Signal Processing

Research Area

Cooperative Communications

Spatial Modulation

Wireless Sensor Networks

Energy Optimization

Working Experience

2014-2018, Post-doctoral Researcher, KAIST, Daejeon, Republic of Korea.

2018- present, Assistant Professor, Faculty of Information Technology, Macau University of Science and Technology, Macau, China.

Academic Publication (selected papers since 2015)

Fawaz AL-Hazemi, **Yuyang Peng**, Chan-Hyun Youn, Josip Lorincz, Chao Li, Song Guo, Raouf Boutaba, "Dynamic allocation of power delivery paths in consolidated data centers based on adaptive UPS switching", *Computer Networks*, vol. 144, pp.254-270, Oct., 2018

Yuyang Peng, Fawaz Al-Hazemi, Raouf Boutaba, Fei Tong, Il-Sun Hwang, and Chan-Hyun Youn, "Enhancing energy efficiency via cooperative MIMO in wireless sensor networks: state of the art and future research directions," *IEEE Commun. Mag.* vol. 5, no. 11, pp. 47-53, 2017.

Yuyang Peng, Limei Peng, Ping Zhou, Jun Yang, Sk Md Mizanur, and Ahmad Almogren, " Exploiting energy efficient emotion-aware mobile computing " *Mobile Networks and Applications* , vol. 22, no. 6, pp. 1192-1203, 2017.

Yuyang Peng and Limei Peng " A cooperative transmission strategy for body-area networks in healthcare systems," *IEEE Access* , vol. 4, pp. 9155-9162, 2017.

Yuyang Peng, Fawaz Al-Hazemi, Heejae Kim, and Chan-Hyun Youn, "Design and optimization for energy-efficient cooperative MIMO transmission in ad hoc networks," *IEEE Trans. Veh. Technol.* , vol. 66, no. 1, pp. 710-719, 2017.

Yuyang Peng, Fawaz Al-Hazemi, Heejae Kim, and Chan-Hyun Youn “ Joint selection for cooperative spectrum sensing in wireless sensor networks,” *IEEE Sensor J.*, vol. 16, no. 22, pp. 7837-7838, 2016.

Fawaz Al-Hazemi, Dong-Ki Kang, Seong-Hwan Kim, Newaz, **Yuyang Peng**, and Chan-Hyun Youn, “ LPCFreqSchd: A local power controller using the frequency scheduling approach for virtualized servers,” *Cluster Computing* , vol. 19, no. 2, pp.663-678, Jun, 2016.

Yuyang Peng, Dong-Ki Kang, Fawaz Al-Hazemi, and Chan-Hyun Youn, “Energy and QoS aware resource allocation for heterogeneous sustainable cloud datacenters,” *Optical switching and networking* , vol. 23, no. 3, pp. 225-240, 2016.

Yuyang Peng and Chan-Hyun Youn, “Lifetime and energy optimization in multihop wireless sensor networks with spatial modulation based cooperative MIMO,” *IEEJ Trans. Elect. Electron. Eng.*, vol. 10, no. 6, pp. 731-732, Nov, 2015.

Yuyang Peng and Chan-Hyun Youn, “An energy-efficient cooperative MIMO transmission with data compression in wireless sensor networks,” *IEEJ Trans. Elect. Electron. Eng.*, vol. 10, no. 6, pp.729-730, Nov, 2015.

Fawaz Al-Hazemi, **Yuyang Peng**, and Chan-Hyun Youn, “A MISO model for power consumption in virtualized servers,” *Cluster Computing* , vol. 18, no. 2, pp.847-863, Jun, 2015.

Professional Certification and Awards

Best Paper Award, The Korean Institute of Communications and Information Science, 2011

Best Paper Award, The Korean Institute of Signal Processing and System Society, 2012

Marquis Who's Who in the world, 2018

Albert Nelson Marquis Lifetime Achievement Award, 2018

Professional Society Membership

Member of The Korean Institute of Communications and Information Science (KICS)

Member of Institute of Electrical and Electronics Engineers (IEEE)

Professional Activity

Associate Editor, *IEEE Access*