Anzhong Hu: Curriculum Vitae

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Research

Massive MIMO systems, millimeter wave communication

Personal

Born on Aug. 11, 1986 in Anji county, China; China nationality; Married with one daughter

Education

- 2009-2014: Beijing University of Posts and Telecommunications (BUPT), Beijing, China
  Doctor of Engineering, in Signal and Information Processing.
- 2005-2009: Zhejiang University of Technology(ZJUT), Hangzhou, China
  Bachelor of Engineering, in Communication Engineering.

Academic Experience

- Jan. 2020-present: Associate professor at Hangzhou Dianzi University(HDU),Hangzhou, China.
- Jun. 2019-present: Visiting researcher at Chalmers University of Technology(CTH), Gothenburg, Sweden.
- Jul. 2014-Dec. 2019: Lecturer at Hangzhou Dianzi University(HDU), Hangzhou, China.

Teaching&Supervision

- 2014-present: Principle of Communication, Analog Electronics Technology,
  Communication Circuit, 5G Communication Technology, Experiments of Principle of Communication,
  Experiments of Communication Circuit, Course Design for Communication System.
- 2015-present: Supervised 25 undergraduate theses.
- 2017-present: 3 currently supervised master students

Selected Funding

- Investigation of channel estimation in mmWave massive MIMO systems with hybrid processing, Zhejiang Provinsional Natural Science Foundation, 2020-2022, 90 thousand RMB, Principal investigator
- Investigation of three dimensional beamforming in massive MIMO systems, Zhejiang Provinsional Natural Science Foundation, 2016-2018, 50 thousand RMB, Principal investigator.
- Investigation of transmission optimization theory and technology in massive MIMO systems, National Natural Science Foundation of China, 2017-2019, 190 thousand RMB, Principal investigator.

Selected Publications

Overview

Since 2013, Dr. Anzhong Hu has published 12 journal papers, 11 conference papers, and received over 200 citations according to Google Scholar.

- A. Hu, S. Yang, Spatial overlapping index based joint beam selection for millimeter-wave multiuser MIMO systems, Signal Processing, vol. 167, pp. 1-10, Sep. 2019.
- A. Hu, User scheduling for capacity-Jain's fairness tradeoff in millimeter-wave MIMO systems, Signal Processing, vol. 158, pp. 141-149, May 2019.
- A. Hu, Beam grouping based user scheduling in multi-cell millimeter-wave MIMO systems, IEEE Access, vol. 6, pp. 55004-55012, Sep. 2018.
- A. Hu, Antenna tilt adaptation for multi-cell massive MIMO systems, IEEE Communications Letters, vol. 21, no. 11, pp. 2436-2439, Nov. 2017.
- A. Hu, Channel estimation for interference mitigation in millimeter-wave multi-cell beamspace MIMO systems, Journal of Communications and Networks, vol. 19, no. 4, pp. 371-383, Apr. 2017.
- A. Hu, Antenna tilt design for millimeter-wave beamspace MIMO systems, Wireless Personal Communications, vol. 94, no. 3, pp. 1701-1713, Jun. 2017.
- A. Hu, DOA-based beamforming for multi-cell massive MIMO systems, Journal of Communications and Networks, vol. 18, no. 5, pp. 735-743, Nov. 2016.
- A. Hu, Statistical Beamforming for Interference Mitigation in Multi-cell Massive MIMO Systems, Frequenz, vol. 70, no. 1-2, pp. 47-56, Jan. 2016.
- A. Hu, T. Lv, H. Gao, et al, An ESPRIT-based approach for 2-D localization of incoherently distributed sources in massive MIMO systems, IEEE Journal of Selected Topics in Signal Processing, vol. 8, no. 5, pp. 996-1011, Apr. 2014.
- A. Hu, T. Lv, ang Y. Lu, Subspace-Based Semi-Blind Channel Estimation for Large-Scale Multi-Cell Multiuser MIMO Systems, in Proc. 2013 IEEE 77th Vehicular Technology Conference (VTC Spring), Dresden, Germany, Jun. 2013, pp. 1-5.
- A. Hu, T. Lv, H. Gao, et al, Pilot design for large-scale multi-cell multiuser MIMO systems, in Proc. 2013 IEEE International Conference on Communications (ICC), Budapest, Hungary, Jun. 2013, pp. 5381-5385.