

1. **Name:** Tao Han

Academic Rank: Assistant Professor

2. **Degrees:**

BS	Dalian University of Technology	2006
MS	Beijing University of Posts and Telecommunications	2009
PhD	New Jersey Institute of Technology	2015

3. **UNC Charlotte (number of years = 1)**

- Assistant Professor: 2015 - present

4. **Other related experience:**

- Full-time Research Intern, InterDigital Innovation Lab., Jan. 2014– Jun. 2014.
- Full-time Research Intern, FutureWei Media Lab., Jul. 2011 – Sep. 2011.
- Full-time Research Intern, Intel China Research Center, Oct. 2008 – Apr. 2009.

5. **Certifications or professional registrations:**

6. **Current membership in professional organizations**

- IEEE (Member), IEEE Communication Society (2008 – present)

7. **Honors and awards:**

- ELSEVIER Computer Networks Outstanding Contribution in Reviewing Award 2015.
- New Jersey Inventors Hall of Fame Graduate Student Award, 2014.
- NJIT Hashimoto Prize, 2015.
- NJIT Department of ECE Academic Excellence Award, 2015.
- NJIT Hashimoto Fellowship and PhoneTel Fellowship, 2011-2012;
- IEEE ICC National Science Foundation Student Travel Grant, 2013;
- IEEE GLOBECOM Student Travel Grant, 2012, 2013 & 2014.

8. **Institutional and professional service in the last five years:**

- UNC Charlotte ECE Department Graduate Committee, 2015 - present.
- Computing Facilities Advisory Committee, 2015 - present.

9. **Principal publications of last five years:**

- **Tao Han** and Nirwan Ansari, "Traffic Load Balancing Framework for Software-defined Radio Access Networks Powered by Hybrid Energy Sources," **IEEE/ACM Transactions on Networking**, DOI:10.1109/TNET.2015.2404576, 2015.
- **Tao Han** and Nirwan Ansari, "Provisioning Green Energy for Base Stations in Heterogeneous Networks," **IEEE Transactions on Vehicular Technology**, DOI: 10.1109/TVT.2015.2466101, 2015.
- Xueqing Huang, **Tao Han**, and Nirwan Ansari, "On Green-Energy-Powered Cognitive Radio Networks," **IEEE Communications Surveys and Tutorials**, vol.17, no.2, pp.827-842, Second Quarter 2015.
- **Tao Han** and Nirwan Ansari, "User association in backhaul constrained small cell networks," in *IEEE Wireless Communications and Networking Conference (WCNC)*, pp.1637-1642, March 2015.
- **Tao Han** and Nirwan Ansari, "RADIATE: Radio Over Fiber as Antenna Extender for High Speed Train Communications", **IEEE Wireless Communications Magazine**, vol.22, no.1, pp.130-137, February 2015.

- **Tao Han** and Nirwan Ansari, "Provisioning green energy for small cell BSs," in *IEEE Global Communications Conference (GLOBECOM)*, pp.4935-4940, Dec. 2014.
- **Tao Han** and Nirwan Ansari, "Enabling Mobile Traffic Offloading via Energy Spectrum Trading," *IEEE Transactions on Wireless Communications*, vol.13, no.6, pp.3317-3328, June 2014.
- **Tao Han** and Nirwan Ansari, "Smart grid enabled mobile networks: Jointly optimizing BS operation and power distribution," in *IEEE International Conference on Communications (ICC)*, pp.2624-2629, June 2014.
- **Tao Han** and Nirwan Ansari, "Offloading Mobile Traffic via Green Content Broker," *IEEE Internet of Things Journal*, vol.1, no.2, pp.161-170, April 2014.
- **Tao Han** and Nirwan Ansari, "Heuristic Relay Assignments for Green Relay Assisted Device to Device Communications", in *IEEE Global Communications Conference (GLOBECOM)*, pp. 468 - 473 Dec. 2013.
- **Tao Han** and Nirwan Ansari, "Green-energy Aware and Latency Aware User Associations in Heterogeneous Cellular Networks", in *IEEE Global Communications Conference (GLOBECOM)*, pp. 4946 – 4951, Dec. 2013.
- **Tao Han** and Nirwan Ansari, "Powering Mobile Networks with Green Energy," *IEEE Wireless Communications Magazine*, vol.21, no.1, pp.90-96, February 2014.
- **Tao Han**, Nirwan Ansari, Mingquan Wu, and Heather H. Yu, "On Accelerating Content Delivery in Mobile Networks," *IEEE Communications Surveys and Tutorials*, vol.15, no.3, pp.1314-1333, Third Quarter 2013.
- **Tao Han** and Nirwan Ansari, "Auction-based Energy-Spectrum Trading in Green Cognitive Cellular Networks", in *IEEE International Conference on Communications (ICC)*, pp. 6205 - 6209, June 2013.
- **Tao Han** and Nirwan Ansari, "Energy Agile Packet Scheduling to Leverage Green Energy for Next Generation Cellular Networks", in *IEEE International Conference on Communications (ICC)*, pp.3650 - 3654, June 2013.
- **Tao Han** and Nirwan Ansari, "On Optimizing Green Energy Utilization for Cellular Networks with Hybrid Energy Supplies," *IEEE Transactions on Wireless Communications*, vol.12, no.8, pp.3872-3882, 2013.
- **Tao Han** and Nirwan Ansari, "On Greening Cellular Networks via Multicell Cooperation," *IEEE Wireless Communications Magazine*, vol.20, no.1, pp.82-89, February 2013.
- **Tao Han** and Nirwan Ansari, "ICE: Intelligent Cell BrEathing to Optimize the Utilization of Green Energy," *IEEE Communications Letters*, vol. 12, No. 6, pp. 866-869, June 2012.
- **Tao Han** and Nirwan Ansari, "Energy Efficient Wireless Multicasting", *IEEE Communications Letters*, Vol. 15, No. 6, pp.620-622, June 2011.

10. Professional development activities in the last five years:

- Publicity co-chair: IEEE HPSR 2015.
- Session chair: IEEE GLOBECOM 2104 & 2013, IEEE ICC 2013.
- Technical program committee: IEEE GLOBECOM 2105, IEEE WCNC 2015, 2014 and 2012.