

Jintao Wang

Associate Professor

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EDUCATION

Tsinghua University, Beijing, China 2001-2006
Ph.D. (with honors) in Department of Electronic Engineering

Tsinghua University, Beijing, China 1997-2001
B.S. in Electronic Engineering

PROFESSIONAL EXPERIENCE

Tsinghua University, Beijing, China 2009.12 – now
Associate Professor in the Department of Electronic Engineering

Tsinghua University, Beijing, China 2006.07 – 2009.12
Assistant Professor in the Department of Electronic Engineering

RESEARCH SUMMARY

Jintao Wang has published more than 50 journal papers and more than 60 conference papers in the areas of digital television(TV) broadcasting, single frequency network(SFN), and wireless communications, with the focus on multiple input multiple output(MIMO) signal processing, orthogonal frequency division multiplexing(OFDM), synchronization, channel estimation, and channel equalization. He has authored/co-authored 5 technical books. He has held 43 invention patents. He has graduated 5 Ph.D. students and 10 Master Students. He is currently advising/co-advising 7 doctoral students and 1 master Students. He has served as PI/Co-PI on more than 10 research grants administrated by China government agencies (including NSFC, National Key Technology Program, 863, Standardization Administration, National Development and Reform Commission, Ministry of Industry and Information Technology, and etc) and more than 10 research grants from industry (including Agilent, France Telecom, MediaTek, ASTRI, and etc), with total amount of 23.5 million RMB. These research results lead to the high spectrum efficiency signal design, processing and hardware realization schemes for digital TV broadcasting, the general SFN structure with transmit diversity, and the generalised spatial modulation scheme with multiple dimensional constellation for MIMO system. Due to the contribution on the channel estimation, channel equalization, and SFN structure, his work has been adopted in the **Chinese National Standard** (GB20600-2006) and **ITU Standards** (ITU-R BT.1306-6, ITU-R BT 1368-9). He has won **the first prize of National Science and Technology Progress Award** in 2016. He also received Best Paper Award in *IEEE ICC 2013*.