Haoyue Tang

Personal Data

Address:	Zijing 4 221A, Tsinghua University, Beijing, China, 100084
Phone:	+86 189-368-77906(CHN)
email:	tanghaoyue13@tsinghua.org.cn

Education

Aug 2017-Current	**Tsinghua University**, Beijing, China
	PhD student in Information and Communications
Aug 2013-Jul 2017	**Tsinghua University**, Beijing, China
	Bachelor of Engineering | Department of Electronic Engineering
Fall 2015/16	Technische Universität München, Bayern, Deutschland
	Exchange Student in the Department of Electrical and Computer Engineering

Representative Courses

Optimization:	Nonlinear Programming, Convex Optimization, Stochastic Network Optimization
Prob&Stat:	Statistical Inference, Introduction to Statistical Learning Theory, Information Theory
Maths:	Functional Analysis, Matrix Analysis
Communications:	Communication Signal Processing, Modern Signal Processing,
	Fundamentals of Communcation Networks

Research Interests

Age of Information, Stochastic Network Optimization, Distributed Learning and Optimization

Publications

H. Tang, J. Wang, L. Song and J. Song, "Minimizing Age of Information with Power Constraints: Opportunistic Scheduling in Multi-State Time-Varying Networks", submitted to IEEE Journal on Selected Areas in Communications.

H. Tang, J. Wang, Z. Tang and J. Song, "Scheduling to Minimize Age of Synchronization in Wireless Broadcast Networks with Random Updates", submitted to IEEE Transactions on Wireless Communications. (Major Revision)

H. Tang, P. Ciblat, J. Wang, M. Wigger and R. Yates, "Age of Information Aware Cache Updating with File- and Age-Dependent Update Durations", submitted to ICC2020

H. Tang, J. Wang, L. Song, and J. Song, Scheduling to minimize age of information in multi-state time-varying networks with power constraints, IEEE 57th Annual Allerton Conference on Communication, Control, and Computing (Allerton), 2019.

H. Tang, J. Wang, Z. Tang, and J. Song, "Scheduling to Minimize Age of Synchronization in Wireless Broadcast Networks with Random Updates", Proceedings of the IEEE International Symposium on Information Theory (ISIT), Paris, France, 2019.

H. Tang, J. Wang and L. He, "Off-Grid Sparse Bayesian Learning Based Channel Estimation for MmWave Massive MIMO Uplink", IEEE Wireless Commun. Letters 8(1): 45-48 (2019)

Teaching and Tutoriing

Guest Lecture, Data Freshness Metrics in Communications, Lecture in Tsinghua Undergraduate Course Communications and Networks, 2019.9

Undergraduate Tutor, Department of Electrical Engineering, Tsinghua University, 2017.9-2019.7

Tutor, Tsinghua University Sports Team, Tsinghua University, 2019.7-Current.

Services

Reviewer, IEEE Journal on Selected Areas in Communications, Communication Letters, Wireless Communication Letters, Transactions on Broadcasting

Reviewer, IEEE ICC2019

Awards

Sep. 2019	First Class Scholarship for Comprehensive Excellence, Tsinghua University
Apr. 2019	Stars of EE Department (Highest Honor for Graduate Student in EE Department for Research Excellence and Specialities), Tsinghua University
Dec. 2016	Undergraduate Academic Research Promotion Excellent Project
Oct. 2016	Zhou Huiqi Scholarship, Tsinghua University
Dec. 2015	Student Research Training Second Prize, Tsinghua University
Oct. 2015	Zhou Huiqi Scholarship, Tsinghua University
May. 2015	China Scholarship Council Excellent **Undergraduate** Fellowship
Dec. 2014	**Second Prize** in non-physics specialties group, Beijing College Physics Competition
Oct. 2014	Scholarship for **Academic Excellence**(Zhou Huiqi Scholarship), Tsinghua University
Oct. 2014	Scholarship for **Science and Innovation**, Tsinghua University
Oct. 2014	Scholarship for **Physical Excellence**, Tsinghua University
Nov. 2012	Silver Medal in 29th National Physics Olymplics Contest(Ranking 61 out of 92000)

Languages

English:	Excellent listening, speaking, reading and writing abilities
	TOEFL 105(Reading 28 Listening 25 Speaking 23 Writing 29)
Deutsch:	Intermediate Knowledge(B1 Standard), CET-4 passed