

Ting Bai

PERSONAL DATA

NATIONALITY: China
TITLE: Postdoctoral Researcher
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EDUCATION AND WORK EXPERIENCE

SEP 2020	Postdoctoral Researcher in ELECTRICAL ENGINEERING AND COMPUTER SCIENCE, KTH Royal Institute of Technology , Stockholm, Sweden
– PRESENT	Group: Division of Decision and Control Systems (DCS) Supervisor: Prof. <i>Jonas Mårtensson</i> and Prof. <i>Karl Henrik Johansson</i> Research Interests: Optimal control, model predictive control (MPC), dynamic programming, reinforcement learning, and their applications to intelligent transportation systems.
MAR 2020	Postdoctoral Researcher in COMPUTER SCIENCE AND TECHNOLOGY, Shanghai Jiao Tong University , Shanghai, China
– SEP 2020	Group: Dynamic Systems Optimization (DSO) Supervisor: Prof. <i>Shaoyuan Li</i> and Prof. <i>Guangtao Xue</i>
SEP 2013	Ph.D. in ELECTRONIC INFORMATION AND ELECTRICAL ENGINEERING, Shanghai Jiao Tong University , Shanghai, China
– DEC 2019	Major: Control Science and Engineering Thesis: “Design and Synthesis of Distributed Reconfigurable Predictive Control Systems” Supervisor: Prof. <i>Shaoyuan Li</i>
SEP 2009	Bachelor in ENGINEERING, Northwestern Polytechnical University , Xi’an, China
– JUN 2013	Major: Automation GPA: 87.77/100 (Top 2%) Thesis: “Research on the Principle Prototype of Soft PLC based on Embedded Systems” Ranking: No.1 in the school

LANGUAGE AND PROGRAMMING SKILLS

Language: CHINESE (Native language)
ENGLISH (Fluent, CET 6)
Professional: PYTHON, MATLAB, \LaTeX
C (National Computer Rank Examination Band 2)

SCHOLARSHIPS AND PRIZES

- 2020-2022 **Development Scholarship for Outstanding Doctoral Graduates** in Shanghai Jiao Tong University | **One of the Top 15 doctoral graduates** in the university
- 2020 Future Digileaders of Digital Futures in Stockholm
- 2020 “**Super Postdoctoral Fellow**” in Shanghai, China | Supported by special funds
- 2013-2015 Grants sponsored by Shanghai Jiao Tong University alumni
- 2013 **Excellent Graduate** in Northwestern Polytechnical University
- 2013 **Excellent Graduation Thesis** in Northwestern Polytechnical University
- 2012 National Motivational Scholarship
- 2012 First-class Scholarship in Northwestern Polytechnical University
- 2012 “**Ji Wenmei**” **Special Scholarship**
- 2012 Miyoshi Outstanding Student in Northwestern Polytechnical University
- 2012 Improvement Innovation Competition in Industry (school-level), 1st place
- 2012 Industrial Engineering Creative Competition in Shaanxi Province, 2nd place
- 2012 “Principle & Application of Microcomputer” Experimental Skills Contest (school-level), 2nd place
- 2011 First-class Scholarship in Northwestern Polytechnical University
- 2011 “**Wu Yajun**” **Special Scholarship**
- 2011 Mathematical Contest in Modeling for College Students, 1st place
- 2010 Miyoshi Outstanding Student in Northwestern Polytechnical University
- 2010 First-class Scholarship in Northwestern Polytechnical University
- 2010 “**Kun Chuan**” **Special Scholarship**
- 2010 University-level “Advanced Individual”
- 2010 Advanced Mathematics Contest in Shaanxi Province, 3rd place
- 2009 **Special Award for New College Students** | **Top 1%** in entrance examination

MAJOR PROJECTS (WORKED ON)

- 2020–2022: “Economic and Environmental Impacts of Multi-Brand Platooning”
The Horizon 2020 through the Project ENSEMBLE in the European Union
- 2019–2020: “Science and Technology Innovation in 2030–New Generation of AI”
The Major Program of the National Natural Science Foundation of China
- 2017–2019: “Design and Synthesis of Distributed Predictive Control Systems under the Framework of Cyber-Physical Systems (CPSs)”
The National Program on Key Basic Research Project of China
- 2013–2017: “Strategies and Algorithms Developed for Addressing Real-Time Constrained Optimization Problems in Large-Scale Engineering Systems”
The National Natural Science Foundation of China

MENTORSHIP AND TEACHING EXPERIENCE

- 2021 Mentor of the undergraduate thesis of two students, KTH, Sweden
2014 Teaching assistant of the Ph.D. course on Adaptive Control, Shanghai
Jiao Tong University, China

PROGRAM COMMITTEE

- SEP 24-27, 2024 **Publication Co-chair** of the 27th IEEE ITSC, Edmonton, Canada
SEP 24-27, 2024 **Associate Editor** of the 27th IEEE ITSC, Edmonton, Canada
DEC 13-15, 2023 **Chair** of the Session “Intelligent Systems”, 62nd IEEE CDC, Singapore
Co-chair of the Session “Machine Learning V”, 62nd IEEE CDC, Singapore
MAR 30, 2023 Co-organizer of the 2nd Stockholm Workshop on Emerging Topics in
Systems and Control, Stockholm, Sweden
JUN 30, 2022 Co-organizer of the 2022 NetCon Workshop of DCS, Stockholm, Sweden
MAR 10-11, 2021 Co-organizer of the 2021 NetCon Workshop (virtual), Stockholm, Sweden
2020-PRESENT **Host** of the Transport Seminar at the Division of DCS, KTH

JOURNAL REVIEWER

- Automatica
- IEEE Transactions on Automatic Control
- IEEE Transactions on Intelligent Transportation Systems
- IEEE Transactions on Control Systems Technology
- IEEE Transactions on Intelligent Vehicles
- IEEE Transactions on Transportation Electrification
- IEEE Transactions on Circuits and Systems for Video Technology
- IEEE Control Systems Letters
- ACM Transactions on Cyber-Physical Systems
- Control Engineering Practice
- Asian Journal of Control
- Systems & Control Letters
- Energies

CONFERENCE REVIEWER

- IEEE Conference on Decision and Control (CDC)
- American Control Conference (ACC)
- IFAC World Congress (IFAC WC)
- European Control Conference (ECC)
- IEEE Conference on Intelligent Transportation Systems (ITSC)
- IEEE Intelligent Vehicles Symposium (IV)
- Learning for Dynamics & Control Conference (L4DC)
- Asian Control Conference (ASCC)
- Chinese Control Conference (CCC)