RESUME

BASIC INFORMATION	Name: Jin Tao Birthday: September 05, 1986 Address: Pikkulotankuja 4 E3, 02680 Espoo, Finland Tel: +358 509184234	Nationality: Chinese (P) Gender: Male Email: jintao.aalto@gmail.com

SUMMARY

Jin Tao has an impressive academic record with 15+ years of experience in the automation and robotic fields. He is currently a Senior AI Scientist at Silo AI Oy. Before joining Silo AI, He was an Associate Professor at the College of Artificial Intelligence, Nankai University, China (QS ranking # 378). He also worked as a postdoctoral researcher at Aalto University, Finland, and a Boya research fellow at Peking University, China (QS ranking # 12) from 2017 to 2022. In 2018, Jin was appointed as the Academy of Finland Postdoctoral Research Fellow.

His main research topics include complex system dynamics and intelligent control, smart systems, reinforcement learning, and deep learning. He has published over 110 papers in peer-reviewed journals and conferences and over 900 citations with an H-index of 16. He is also a Microsoft Certified Azure AI Engineer Associate and a Microsoft Certified Azure Data Scientist Associate.

RESEARCH FIELDS

Dynamic modeling of complex systems, Optimization, Heuristic algorithm, Intelligent control, Autonomous systems, Robotics, Multi-agent systems, Machine learning, Triboelectric nanogenerator sensors

RESEARCH AND WORKING CAPACITY

- Extensive knowledge in mathematics, physics, computer science, and control theory.
- Strong technology skills in optimization, modeling, control system design, parameter identification, and machine learning.
- Extensive programming experience in Python, C, and Matlab.
- Demonstrated ability to translate deep theory into practice.
- Excellent written and oral English.

EDUCATION BACKGROUND

Nankai University, Tianjin, China   Sep 2014 to Jun 2017

Ph.D., Control Science and Engineering,

- Title: *Research on modeling and homing control of parafoil systems in complex environments*
- Advisors: Prof. Dr. Qinglin Sun
- The doctoral dissertation written by Dr. Tao won the 2018 Excellent Doctoral Dissertation of Nankai University (<3%) and the 2017-2019 Excellent Doctoral Dissertation of Tianjin (<1%).

Peking University, Beijing, China   Sep 2009 to Jun 2011
Guangxi University of Science and Technology,
                    Liuzhou, Guangxi, China   Sep 2008 to Aug 2009

M.S., Control Theory and Control Engineering
- Topic: *Path planning in robotic fish water polo game*
- Advisor: Prof. Feng Kong and Prof. Dr. Guangming Xie

Qingdao University of Science and Technology,
                    Qingdao, Shandong, China   Sep 2004 to Jun 2008

B.S., Automation

WORKING EXPERIENCE	Silo AI, Helsinki, Finland	January 2022 to present

- Department: Smart things
- Position: Senior AI Scientist

Nankai University, Tianjin, China — September 2020 to December 2021

- Department: College of Artificial Intelligence
- Position: Associate Professor

Aalto University, Espoo, Finland — August 2017 to August 2021

- Department: Department of Electrical Engineering and Automation
- Position: Academy postdoctoral researcher (PI of Academy of Finland Postdoctoral Research Fund)
- Collaborative Advisor: Prof. Dr. Quan Zhou

Peking University, Beijing, China — October 2018 to September 2020

- Department: College of Engineering
- Position: "Boya" fellowship researcher
- Advisor: Prof. Dr. Guangming Xie

Beijing Sany Heavy Machinery CO., LTD, Beijing, China — Apr 2011 to Sep 2014

- Department: Institute of Rotary Drilling Machine
- Position: Principal Engineer & Project Manager

OTHER MERITS

Key Competences
- Research project investigation, coordination, management, and leadership;
- A technical expert in the areas of dynamic system analysis and control;
- Scientific and technical instruction and supervision on Ph.D. and master students;
- Academic leadership for conference organization and journal edition;
- Independent research and innovation competence;
- Good teaching and mentoring skills;
- 15+ years R&D experience in both industry and academy;
- High scientific attitude and persistent spirit;
- Advanced communication and networking skills;
- Work efficiently, good at fully making use of available resources;
- Industrial experiences on R&D, software product design and implementation.

Personal Characteristics
- Hobby: gardening, badminton, fishing, reading and boxing;
- An easy-going person with open mind and care; optimistic spirit, persistence, "Sisu" spirit;
- A helpful and kind person.

MORE INFORMATION

More information please refer to the following websites:
- Linkedin
- Researchgate
- Google scholar