Tsz-Chiu **Au**

About me

I am a computer scientist who is eager to devise algorithms and design AI and robotic systems with interesting properties that enable novel applications.

Research Interests

multiagent systems
multirobot systems
automated planning
motion planning
autonomous vehicles
autonomous drones
transportation systems
robot security systems
logistics systems
etc.

Hobby

science and math
web development
watching movies
hiking

Teaching Experience

artificial intelligence
machine learning
deep learning
autonomous robots
data structures
C++ programming
web technology

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Short Resumé

2012–2023 **Assistant Professor / Associate Professor**
Computer Science and Engineering · UNIST
Founded the Agents and Robotic Transportation Lab, which focuses on artificial intelligence, robotics, and transportation research.

2008–2012 **Postdoctoral Fellow**
Computer Science · The University of Texas at Austin
Took part in research projects on autonomous traffic management for autonomous vehicles.

Degrees

2008 **Ph.D., Computer Science**
University of Maryland
College Park

2002 **M.S., Computer Science**
University of Maryland
College Park

1997 **B.Eng., Computer Science**
Hong Kong University of Science and Technology

Programming

- **C++23**
- **Python**
- **Shell Scripts**
- **Java**
- **Javascript**

Research Grants

2022–2027 **Optimal Design of High-Density Parking Lots for Autonomous and Semi-Autonomous Vehicles**
PI · National Research Foundation, South Korea

2016–2021 **Software Development for Disaster Analysis using Machine Learning**
Co-PI · Ultra-High Performance Computing Research Center

Professional Services

2022–now Associate Editor, RA-L
2022–2024 Associate Editor, ICRA
2019–2023 Co-chair of IEEE RAS TC on Algorithms for Planning and Control of Robot Motion

Recent Publications

2022 *Extended Goal Recognition Design with First-Order Computation Tree Logic*, AAAI.
2022 *Dynamic Robot Chain Networks for Swarm Foraging*, ICRA.

Spoken Languages

English
Cantonese
Mandarin

Talks

2022 "*Smart Lifestyle in Smart Cities: How will AI change our daily life in the future?*", World Science Culture Forum, Daejeon.

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