

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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in Tsz-Chiu Au

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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



L^AT_EX




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.

TALKS

2022

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

SPOKEN LANGUAGES

English
Cantonese
Mandarin
Korean



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