TIANCHEN WANG

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EDUCATION

Kyoto University **Kyoto. Japan**
Master of Informatics in Computer Science *Expected Mar.2024*

Beijing Information Science & Technology University **Beijing. China**
Bachelor of Engineering in Automation *Sept.2016 - Jun.2020*

SKILLS

Programming Languages	Java, Python, C, HTML, SQL, MATLAB
Development & Tools	AWS, MySQL, Git
Languages	English, Japanese and Mandarin

PROJECTS

The Fuzzy Feedback Control of Aircraft Jan.2020 - Jun.2020
Graduation Project *Beijing. China*

- Design a double loops fuzzy feedback controller based on the mathematical model of aircraft.
- Adjust the aircraft's attitude by controlling the pitch angle speed and rudder deflection, simulate the feedback controller by MATLAB.
- Use fuzzy logic to acquire fuzzy approximation of the nonlinear function in mathematical model.
- Use the fuzzy approaching table to construct the fuzzy feedback controller, simulate the fuzzy feedback controller by MATLAB.
- Compare the MATLAB simulation results.

The Robust Fault-tolerant Control of Quad-rotor Aircraft Jan.2018 - Dec.2018
National Science and Technology Innovation Program for College Students *Beijing. China*

- Design a double loops controller.
- Construct an inner-loop controller based on robust fault-tolerant control to control the attitude of the quad-rotor aircraft.
- Construct an external-loop controller based on PID control to control the position of the quad-rotor aircraft.
- Simulate the double loops controller by MATLAB.

PUBLICATION

Observer-based Robust Control of Quad-rotor Aircraft Systems *Jan. 2020*
Robust Stability Control Research of Quad-rotor Aircraft *Nov. 2018*

COURSEWORK

Database, Information Retrieval, Interaction Design, Machine Learning, Artificial Intelligence