

장도현

## Dohyun Jang

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### RESEARCH INTERESTS

Model predictive control/ multirotor control/ networked control systems/ reinforcement learning

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### EDUCATION

2019.03 ~ present, Ph. D. Student, Aerospace Engineering, Seoul Nat'l Univ., Seoul, Korea (Advisor: H. Jin Kim)

2017.03 ~ 2019.02, M.S., Aerospace Engineering, Seoul Nat'l Univ., Seoul, Korea (Advisor: H. Jin Kim)

2017.02, B.S., Electrical Engineering, Korea Univ., Seoul, Korea (Advisor: Soo Won Kim)

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### PUBLICATIONS

#### <International conference>

- **Dohyun Jang**, Clark Youngdong Son, Jaehyun Yoo, H. Jin Kim\*, Karl H. Johansson, "Efficient networked UAV control using event-triggered predictive control", Joint 8th IFAC Symposium on Mechatronic Systems and 11th IFAC Symposium on Nonlinear Control Systems, Vienna, Austria, 2019
  - **Dohyun Jang**, Jaehyun Yoo, Clark Youngdong Son, H. Jin Kim, Karl H. Johansson, "Networked operation of a UAV using Gaussian process-based delay compensation and model predictive control", 2019 International Conference on Robotics and Automation (ICRA), Montreal, Canada, 2019
  - Clark Youngdong Son, **Dohyun Jang**, Hoseong Seo, Taewan Kim, Hyeonbeom Lee, H. Jin Kim, "Real-Time Optimal Planning and Model Predictive Control of a Multi-Rotor with a Suspended Load", 2019 International Conference on Robotics and Automation (ICRA), Montreal, Canada, 2019
  - **Dohyun Jang**, Jaehyun Yoo, and H. Jin Kim, "Tracking Control of a Multirotor UAV in a Network Environment with Time-Varying Delay", 2018 18th International Conference on Control, Automation and Systems (ICCAS), PyeongChang, Korea, 2018
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### PROJECT

SAMSUNG Research: 2017.08.30~2018.03.30, development of autonomous flight UAV – H/W Platform development and control

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### Skills

- Programming: C++ / MATLAB / ROS / Python