



Agile Robotics and Perception Lab

<https://wp.nyu.edu/arpl/>

Conference presentations

Tuesday May 24 2022

- **Deep Learning for Perception | 24 May | Rm 115C |**
 - 10:00-10:05: "*Multi-Robot Collaborative Perceptions With Graph Neural Networks*", Yang Zhou, JiuHong Xiao, Yue Zhou, and Giuseppe Loianno, [paper](#), [video](#)

Wednesday May 25 2022

- **Outstanding Deployed Systems Award Finalists | Wed 25 May 2022 | Room 121**
 - 10:05 - 10:10: "*Learning Model Predictive Control For Quadrotors*", Guanrui Li, Alex Tunchez, and Giuseppe Loianno, [paper](#), [video](#)
- **Aerial Robotics III | Wed 25 May 2022 | Room 112A |**
 - 10:50 - 10:55: "*Autonomous Single-Image Drone Exploration with Deep Reinforcement Learning and Mixed Reality*", Alessandro Devo, Jeffrey Mao, Gabriele Costante, and Giuseppe Loianno, [paper](#), [video](#)
- **Aerial Robotics IV | Wed 25 May 2022 | Room 112A |**
 - 15:30 - 16:50: "*Learning Model Predictive Control For Quadrotors*", Guanrui Li, Alex Tunchez, and Giuseppe Loianno, [paper](#), [video](#)

Workshops Monday, May 23, 2022

- **ICRA workshop “Intelligent Aerial Robotics: From Autonomous Micro Aerial Vehicles to Sustainable Urban Air Mobility and Operations” | Rm 118 B |**
 - 14:35-14:40: "*RotorTM: A Flexible Simulator for Aerial Transportation and Manipulation*", Guanrui Li, Xinyang Liu, and Giuseppe Loianno, [paper](#), [video](#)
 - 14:45-14:50: "*Perching with Quadrotors using Active Visual Feedback*", Jeffrey Mao and Giuseppe Loianno, [paper](#), [video](#)
 - 14:50-14:55: "*Autonomous Single-Image Drone Exploration with Deep Reinforcement Learning and Mixed Reality*", Alessandro Devo, Jeffrey Mao, Gabriele Costante, and Giuseppe Loianno, [paper](#), [video](#)
- **ICRA Workshop “Robotic Perception and Mapping: Emerging Techniques” | Rm 119 A |**
 - "*Autonomous Single-Image Drone Exploration with Deep Reinforcement Learning and Mixed Reality*", Alessandro Devo, Jeffrey Mao, Gabriele Costante, and Giuseppe Loianno, [paper](#), [video](#)
 - "*Multi-Robot Collaborative Perceptions With Graph Neural Networks*", Yang Zhou, Jiuhong Xiao, Yue Zhou, and Giuseppe Loianno, [paper](#), [video](#)

Workshops Friday, May 27, 2022

- **ICRA Workshop "New frontiers of parallel robotics" | Rm 120C |**
 - 14:55-15:15 "*RotorTM: A Flexible Simulator for Aerial Transportation and Manipulation*", Guanrui Li, Xinyang Liu, and Giuseppe Loianno, [paper](#), [video](#)