Kentaro Wada

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EDUCATION

Imperial College London
PhD in Computing — *2018 – 2022*
Supervisor: Prof. Andrew J. Davision

The University of Tokyo
MS in Information Science and Technology — *2016 – 2018*
BE in Mechano-Informatics — *2012 – 2016*
Supervisors: Prof. Masayuki Inaba, Prof. Kei Okada

DISTINCTION

Contributions to the Open Source Community — *2015 - 2022*
Created popular software with 1-8k stars and 500-1000 daily traffics (e.g., Labelme, Gdown).

PhD President's Scholarship of Imperial College London — *2018 – 2022*
One of the fifty PhD students for the full funded scholarship.

Two Patents on Object 6D Pose Estimation — *2021*
Invented methods for 3D object-level scene understanding using vision sensors.

IEEE Robotics and Automation Society Japan Joint Chapter Young Award at IROS 2018 — *2018*
One of the five Japanese students nominated with their conference papers.

Lead the UTokyo Team at the Amazon Robotics Challenge — *2015 – 2017*
Won the 5th place our of 16 teams in 2016. Mainly worked on the vision part.

PUBLICATIONS

Kentaro Wada, Stephen James, and Andrew J. Davison, "ReorientBot: Learning Object Reorientation for Specific-Posed Placement", IEEE International Conference on Robotics and Automation (ICRA), 2022. [Paper] [Video] [Webpage]

Kentaro Wada, Stephen James, and Andrew J. Davison, "SafePicking: Learning Safe Object Extraction via Object-Level Mapping", IEEE International Conference on Robotics and Automation (ICRA), 2022. [Paper] [Video] [Webpage]

Kentaro Wada, Edgar Sucar, Stephen James, Daniel Lenton, and Andrew J. Davison, "MoreFusion: Multi-object Reasoning for 6D Pose Estimation from Volumetric Fusion", IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2020. [Paper] [Video] [Webpage]

Kentaro Wada, Shingo Kitagawa, Kei Okada, and Masayuki Inaba, "Instance Segmentation of Visible and Occluded Regions for Finding and Picking Target from a Pile of Objects", IEEE International Conference on Intelligent Robots and Systems (IROS), 2018. [Paper] [Video]

Kentaro Wada, Kei Okada, and Masayuki Inaba, "Probabilistic 3D Multilabel Real-time Mapping for Multi-object Manipulation", IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), 2017. [Paper] [Video]

KEY SKILLS

- **Coding and software development** with Python and C++ for GUI applications, command-line tools, deep learning, volumetric reconstruction, 2D/3D visualization, and physics simulation.
- **SLAM for 3D semantic scene understanding** with expertise in object tracking, reconstruction, detection and pose estimation using onboard, moving vision sensors.
- **Real-time vision and robotic system building** for 3D scene understanding and motion generation with expertise in integration using The Robot Operation System (ROS).

INTERESTS

Deep Learning, 3D Computer Vision, Robotics