

Kentaro Wada

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Date of birth: 31 January 1994 • Nationality: Japan • Portfolio: wkentaro.com

EDUCATION	Imperial College London	
	PhD in Computing	2018 – 2022
	Supervisors: Prof. Andrew Davison, Dr. Stefan Leutenegger	
	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	PhD President's Scholarship of Imperial College London	2018 – 2022
	<i>Full funded scholarship, and fifty PhD students are selected each year.</i>	
	IEEE Robotics and Automation Society Japan Joint Chapter Young Award at IROS2018	2018
	<i>Five Japanese students are nominated based on their papers at the conference.</i>	
	Google Summer of Code Student	2016
	<i>Completed an open source project from the Open Source Robotics Foundation.</i>	
PUBLICATIONS	Kentaro Wada , Kei Okada, and Masayuki Inaba, “Joint Learning of Instance and Semantic Segmentation for Robotic Pick-and-Place with Heavy Occlusions in Clutter”, <i>Under review at IEEE International Conference on Robotics and Automation (ICRA)</i> , 2019. [Paper] [Movie]	
	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”, <i>IEEE International Conference on Intelligent Robots and Systems (IROS)</i> , 2018. [Paper] [Movie]	
	Kentaro Wada , Kei Okada, and Masayuki Inaba, “Probabilistic 3D Multilabel Real-time Mapping for Multi-object Manipulation”, <i>IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)</i> , 2017. [Paper] [Movie]	
	Kentaro Wada , Makoto Sugiura, Iori Yanokura, Yuto Inagaki, Kei Okada, and Masayuki Inaba, “Pick-and-Verify: Verification-based Highly Reliable Picking System for Various Target Objects in Clutter”, <i>Journal of Advanced Robotics</i> , 2017. [Paper] [Movie]	
	Kentaro Wada , Masaki Murooka, Kei Okada, and Masayuki Inaba, “3D Object Segmentation for Shelf Bin Picking by Humanoid with Deep Learning and Occupancy Voxel Grid Map”, <i>IEEE-RAS International Conference on Humanoid Robotics (Humanoids)</i> , 2016. [Paper] [Movie]	
RESEARCH EXPERIENCE	Leading the UTokyo Team at the Amazon Robotics Challenge	2015 – 2017
	<i>JSK Robotics Laboratory at the University of Tokyo</i>	
	▪ Objectives: To develop a robust state-of-the-art robot picking system for warehouse automation. 2015 edition: Verification based robust picking system by in-hand recognition. 2016 edition: Deep learning based 3D semantic segmentation. 2017 edition: Few-shot deep learning of novel object segmentation using only instance images.	
KEY SKILLS	▪ Programming skills, especially with Python and C++, trained in the research use and contributions to open source projects at GitHub .	
	▪ Experience and knowledge of constructing a large robot vision system integrating various kinds of hardware and software with the Robot Operating System (ROS).	
	▪ Knowledge of deep learning implementation with the frameworks including, Chainer, PyTorch and Caffe, and GPU computing using CUDA.	
INTERESTS	Deep learning, Real-time SLAM, Robotic manipulation.	