

Kentaro Wada

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Date of birth: 31 January 1994 • Nationality: Japanese

EDUCATION	University of Tokyo MS in Information Science and Technology BE in Mechano-Informatics Supervisors: Prof. Masayuki Inaba, Prof. Kei Okada	<i>September 2016 – August 2018 (expected)</i> <i>April 2012 – March 2016</i>
PORTFOLIO	wkentaro.com <i>Extensive listing of cocurricular and research projects.</i>	
DISTINCTION	University of Tokyo, Toyota Dwango Advanced AI Fellowship Google Summer of Code Student <i>Completed an open source project from the Open Source Robotics Foundation.</i> 5th Place Winners (Pick Task) at the Amazon Picking Challenge <i>An internationally recognised premier robotics competition.</i>	<i>2017</i> <i>2016</i> <i>2016</i>
PUBLICATIONS	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>Under review at the 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]. Shun Hasegawa, Kentaro Wada , Yusuke Niitani, Kei Okada, and Masayuki Inaba, “A Three-Fingered Hand with a Suction Gripping System for Picking Various Objects in Cluttered Narrow Space”, <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] Yuki Furuta, Kentaro Wada , Masaki Murooka, Shunichi Nozawa, Yohei Kakichi, Kei Okada and Masayuki Inaba, “Transformable Semantic Map Based Navigation Using Autonomous Deep Learning Object Segmentation”, <i>IEEE-RAS International Conference on Humanoid Robotics (Humanoids)</i> , 2016. [Paper] [Movie]	

RESEARCH EXPERIENCE	<p>Leader of the UTokyo Team at the Amazon Robotics Challenge 2015 – 2017 <i>JSK Robotics Laboratory at the University of Tokyo</i> Supervisor: Associate Prof. Kei Okada 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.</p> <p>Research Assistant at the UTokyo JSK Robotics Lab 2015 – 2017 <i>JSK Robotics Laboratory at University of Tokyo</i> Supervisor: Associate Prof. Kei Okada Objectives: To develop a system of continuous integration of a robotic system as a whole: (1) Same software as a robotic system on simulation and real world. (2) Enable motion testing by a simulator with dynamics.</p> <p>Research Assistant at the UTokyo Tanaka Kenji Lab 2014 – 2015 <i>Tanaka Kenji Laboratory at the University of Tokyo</i> Supervisor: Associate Prof. Kenji Tanaka Objectives: To analyse customer data of an e-commerce site and segment the users' tastes by clustering user data according to page access and shopping.</p>
WORK EXPERIENCE	<p>Donuts Co. Ltd., Tokyo 2013 – 2014 <i>Interned as a System Integrator</i></p> <p>Honda Research Institute, Tokyo 2014 <i>Summer intern, Road scene understanding with deep learning</i></p>
KEY SKILLS	<ul style="list-style-type: none"> ▪ High-level 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	<p>Deep learning, Scene understanding, 3D reconstruction, Real-time vision system.</p>
REFERENCES	<p>Prof. Masayuki Inaba Professor of the Graduate School of Information Technology and Science University of Tokyo 73A1, Engineering Building NO. 2, 7-3-1, Hongo, Bunkyo-ku, Tokyo, 1138656, Japan inaba@jsk.imi.i.u-tokyo.ac.jp • +81 (3) 5841-7416</p> <p>Prof. Kei Okada Professor of the Graduate School of Information Technology and Science University of Tokyo 73A2, Engineering Building NO. 2, 7-3-1, Hongo, Bunkyo-ku, Tokyo, 1138656, Japan k-okada@jsk.imi.i.u-tokyo.ac.jp • +81 (3) 5841-7416</p>

[CV compiled on 2018-04-21]