

Department of Mechanical and Control Engineering  
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## RESEARCH INTERESTS

Structure from Motion, Change Detection, Image Retrieval, Object Recognition, Machine Learning, SLAM, Autonomous Driving

## EDUCATION

Carnegie Mellon University

Visiting Scholar of Robotics Institute

04/2013-03/2014

TOHOKU UNIVERSITY

**PhD** Student of Information Science

04/2011-03/2015

**Master** of Information Science

04/2009-03/2011

**Bachelor** of Mechanical Engineering

04/2005-03/2009

## EMPLOYMENT

Postdoctoral Researcher,	Tokyo Institute of Technology	04/2015-present
Research Assistant,	Tohoku University	04/2014-03/2015
JSPS Research Fellow (DC2),	Tohoku University	04/2012-03/2014
Research Assistant,	Tohoku University	04/2011-03/2011

## PUBLICATIONS

- **Ken Sakurada**, Takayuki Okatani, “Change Detection from a Street Image Pair using CNN Features and Superpixel Segmentation”, BMVC2015 (Poster, Acceptance Rate: 33%)
- **Ken Sakurada**, Takayuki Okatani, Kris M. Kitani, “Massive City-scale Surface Condition Analysis using Ground and Aerial Imagery”, ACCV2014 (Oral, Acceptance Rate: Less than 4%), **"Best Application Paper Honorable Mention Award"**
- **Ken Sakurada**, Takayuki Okatani, Koichiro Deguchi, “Detecting Changes in 3D Structure of a Scene from Multi-view Images Captured by a Vehicle-mounted Camera”, CVPR2013 (Poster, Acceptance Rate: 25.2%)
- Takayuki Okatani, **Ken Sakurada**, Jun Yanagisawa, Daiki Tetsuka, Koichiro Deguchi, “Creating Multi-Viewpoint Panoramas of Streets with Sparsely Located Buildings”, FSR2012
- **Ken Sakurada**, Eijiro Takeuchi, Kazunori Ohno, Satoshi Tadokoro, “Development of Motion Model and Position Correction Method using Terrain Information for Tracked Vehicles with Sub-Crawlers”, IROS2010

- **Ken Sakurada**, Shihiko. Suzuki, Kazunori. Ohno, Eiijiro. Takeuchi, Satoshi Tadokoro, Akihiko Hata, Naoki Miyahara, Kazuyuki Higashi, “Real-time Prediction of Fall and Collision of Tracked Vehicle for Remote-Control Support”, SII2010, “**Best Paper Award Finalist**”
- Akihiko Hata, Kazunori Ohno, Eiijiro Takeuchi, Satoshi Tadokoro, **Ken Sakurada**, Naoki Miyahara, Kazuyuki Higashi, “Development of a Laser Scan Method to Decrease Hidden Areas Caused by Objects Like Pole at Whole 3-D Shape Measurement”, SII2010

## TECHNICAL

C/C++, C#, Python, MATLAB, CUDA, OpenGL, Qt

## HONORS AND AWARDS

- ACCV2014 Best Application Paper Honorable Mention Award
- Graduation Honor, Mechanical Major in Graduate School of Information Science, Tohoku University, 2010
- SII2010 Best Paper Award Finalist
- Second Place of Rescue Robot League of RoboCup World 2009 (Team: Pelican United)
- Eiiji Muto Student Award, Japan Society for Design Engineering, 2008