Ken Sakurada 1

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Artificial Intelligence Research Center (AIRC)

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RESEARCH INTERESTS

Computer Vision (SLAM, 4D Modeling)

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

Computer Vision Technical Fellow	DeNA	06/2018-present
Senior Researchers,	AIST AIRC	04/2018-present
Visiting Researchers,	AIST AIRC	07/2016-03/2018
Assistant Professor,	Nagoya University	04/2016-03/2018
Postdoctoral Researcher,	Tokyo Institute of Technology	04/2015-03/2016
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

- Shinya Sumikura, **Ken Sakurada**, Nobuo Kawaguchi, Ryosuke Nakamura, "Scale Estimation of Monocular SfM for a Multi-modal Stereo Camera", ACCV, 2018 (Poster)

- Kenji Enomoto, **Ken Sakurada,** Weimin Wang, Nobuo Kawaguchi, Masashi Matsuoka, Ryosuke Nakamura, "IMAGE TRANSLATION BETWEEN SAR AND OPTICAL IMAGERY WITH GENERATIVE ADVERSARIAL NETS", IGARSS, 2018

- Kenji Enomoto, **Ken Sakurada**, Weimin Wang, Hiroshi Fukui, Masashi Matsuoka, Ryosuke Nakamura and Nobuo Kawaguchi, "Filmy Cloud Removal on Satellite Imagery with Multispectral Conditional Generative Adversarial Nets", CVPRW EARTHVISION, 2017

- Aito Fujita, **Ken Sakurada**, Tomoyuki Imaizumi, Riho Ito, Shuhei Hikosaka and Ryosuke Nakamura,

"Damage Detection from Aerial Images via Convolutional Neural Networks", MVA, 2017

- Weimin Wang, **Ken Sakurada**, Nobuo Kawaguchi, "Reflectance Intensity Assisted Automatic and Accurate Extrinsic Calibration of 3D LiDAR and Panoramic Camera Using a Printed Chessboard", Remote Sensing, 2017, 9(8)

- **Ken Sakurada**, Daiki Tetsuka, Takayuki Okatani, "Temporal city modeling using street level imagery", CVIU, 2017

- Weimin Wang, **Ken Sakurada**, Nobuo Kawaguchi, "Incremental and Enhanced Scanline-Based Segmentation Method for Surface Reconstruction of Sparse LiDAR Data", Remote Sensing, 2016, 8(11)

- **Ken Sakurada**, Takayuki Okatani, Kris M. Kitatni, "Hybrid Macro-Micro Visual Analysis", CVIU, Vol.146, May 2016, pages 86-98

- **Ken Sakurada**, Takayuki Okatani, "Change Detection from a Street Image Pair using CNN Features and Superpixel Segmentation", BMVC, 2015 (Poster, Acceptance Rate: 33%)

- **Ken Sakurada**, Takayuki Okatani, Kris M. Kitani, "Massive City-scale Surface Condition Analysis using Ground and Aerial Imagery", ACC, V2014 (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", FSR, 2012

TECHNICAL

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

HONORS AND AWARDS

- MIRU2015 Frontier Award
- 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）
- Eiji Muto Student Award, Japan Society for Design Engineering, 2008

GRANTS

- Grant-in-Aid for Scientific Research (KAKENHI) Grant-in-Aid for Young Scientists, 2018 - present (PI)
- New Energy and Industrial Technology Development Organization (NEDO), 2017 (Co-Investigator)
- The Horikagakugeijutsu Foundation for Informational Science Advancement Research Grant, 2017 - present (PI)

- JSPS Research Fellowship for Young Scientists (JSPS DC2), 2013 - 2015 (PI)

Services

- Organizing Committee Member of IAPR International Conference on Machine Vision and Applications (MVA2017)

- Reviewer of TPAMI, CVIU, Remote Sensing, AURO, Advanced Robotics, CVA, CVPRW, ICPR, MVA, ...