JANG, TAE-UK

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International Student(F-1)

EDUCATION

M.S. in Electric and Computer Engineering, Purdue University, West Lafayette   *Aug. 2018 ~*
GPA: 3.78/4.0
Relevant coursework includes:
  Machine Learning, Artificial Intelligence, Digital Image Processing, Digital Video Processing, Linear Algebra, Random Variables and Signals

B.S. in Electronic and Electrical Engineering, Korea University, Seoul   *~ Feb. 2018*
GPA (major): 4.17/4.5
Relevant coursework includes:
  Computer Vision, Control Theory, Data Structure and Algorithm, Digital Signal Processing, Applied Statistics, Signal and System, Digital Image processing

RESEARCH EXPERIENCE

C-design lab (Directed by Prof. Ramani)   West lafayette, IN
    Position: Research Intern (3D Vision team)   April *2019 ~*
        ✓ Participating in development of deep learning based real-time 6D object pose estimation
        ✓ Generating RGBDT dataset and pre-processing for aligning RGB-D with thermal camera
        ✓ Developing state-of-the-art point cloud upsampling and reconstruction

TeeLabs   *Seoul, Korea*
    Position: Intern (Algorithm development team, R&D Department)   Sep. *2017 ~ Feb. 2018*
        ✓ Developing state-of-the-art algorithm that renders accurate indoor 3D maps
        ✓ Detecting detail of objects and dividing object meshes automatically
        ✓ Optimizing server which is to revise and view the images.

Komatzu Inc.   *Komatzu, Japan*
    Position: Intern (Manufacturing robot Team, Manufacturing Department)   Feb. *2016*
        ✓ Monitored errors, assisted communication between Beijing Hyundai and Komatzu.
        ✓ Developed resilient path for manufacturing robots for further changes.
        ✓ Provided overall assistance with translation of sales documents.

PROJECT EXPERIENCE

Developed channel attention module that boosts the accuracy of the current deep networks
with less computational additions
                                        Final project of ECE634 (Digital Video Processing)

Building Spatial Transformer Network (2015, NIPS) for MNIST classification with PyTorch
from scratch
                                        Final project of ECE570 (Artificial Intelligence)

PUBLICATIONS

Journal Publications
    [J1] C. J. Nam, Taeuk Jang and N. L. Doh, " Generating Topological maps for the Perception of Mobile Robots in 3D Environments," *Korea Robotics Society Conference (KRoC)*, 2018

Conference Publications
    [C1] C. J. Nam, Taeuk Jang and N. L. Doh, " Generating Topological maps for Autonomous Navigation using the Sparsest Graph Cut Method," *The Institute of Electronics and Information Engineers (IEIE)*, 2018 (under review)

AWARDS & SCHOLARSHIP

Sukrim Honor Scholarship (1 out of 200), Korea University, 2015
Award of **academic excellence (10 out of 200)**, Korea University, 2014-2017 **(6 consecutive semesters)**
Honor scholarship, City of Ulsan, 2017

PROGRAMMING SKILLS

Python / C / C++ / Matlab / Elixir / Linux
PyTorch / Tensorflow
ROS / OpenCV
PSPICE / Solidworks / CAD / Premier pro / git

LANGUAGE SKILLS

Korean: native
English: fluent

MILITARY SERVICE

Republic of Korea Army   *Choongju, Korea*
    Served as Squad Commander   *2012 - 2014*