Euyoung (Joseph) Kim

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Education

Seoul National University   *Seoul, Korea*
M.S AND PH.D CANDIDATE IN ELECTRICAL ENGINEERING AND COMPUTER SCIENCE, cGPA: 3.6/4.3   *Sep. 2014 – Aug. 2023*
- **Advisor**: Prof. Kyoung Mu Lee

Purdue University   *West Lafayette, IN, USA*
BASc in ELECTRICAL ENGINEERING, cGPA: 3.75/4.0   *Aug. 2008 – Jun. 2014*

Kodaikanal International School   *Tamil Nadu, India*
cGPA: 3.15/4.0   *Jan. 2005 – May. 2008*

Research Interests

Computer Vision and Machine Learning
medical image, industrial application, anomaly detection, generative model

Publications

Improving Abnormality Detection in Chest X-ray with Generative Models and Anatomical Priors in preparation (JBHI)
EUYOUNG KIM, SOOCHAHN LEE, KYOUNG MU LEE

Disentangled Contrastive Learning from Synthetic Matching Pairs for Targeted Chest X-ray Generation   *MedIA 2023 submission*
EUYOUNG KIM, SOOCHAHN LEE, KYOUNG MU LEE

Abnormality Detection in Chest X-Ray via Residual-Saliency from Normal Generation   *ACCESS 2023*
EUYOUNG KIM, SOOCHAHN LEE, KYOUNG MU LEE

Triplanar Convolution with Shared 2D Kernels for 3D Classification and Shape Retrieval   *CVIU 2020*
EUYOUNG KIM, SEUNG YEON SHIN, SOOCHAHN LEE, KYONG JOON LEE, KYOUNG HO LEE, KYOUNG MU LEE

SPNet: Deep 3D Object Classification and Retrieval using Stereographic Projection   *ACCV 2018*
MOHSEN YAVARTANOO, EUYOUNG KIM, KYOUNG MU LEE

Scale-change aware locally adaptive optical flow   *APSIPA 2016*
EUYOUNG KIM, KYOUNG MU LEE

Projects

Product Defect Generation

COLLABORATION WITH COGNEX   *Seoul, Korea*
                                                        Jan. 2022 – Aug. 2023

Combined Deep Learning of Medical Images and Radiology Reports for Automatic Image Analysis

SUPPORTED BY THE NATIONAL RESEARCH FOUNDATION OF KOREA (NRF)   *Seoul, Korea*
                                                        Apr. 2019 – Feb.2020

Computer Aided Surgical Diagnosis for Appendicitis   *Seoul, Korea*

SUPPORTED BY THE INTERDISCIPLINARY RESEARCH INITIATIVES PROGRAM FROM COLLEGE OF ENGINEERING AND   *Apr. 2017 – Mar.2019*
MEDICINE, SEOUL NAITONAL UNIVERSITY

Experience

Purdue University   *West Lafayette, IN, USA*

VERTICALLY INEGRATED PROJECT   *Aug. 2013 – Dec. 2013*

- Developing a human motion capture application using Kinect for Android

Purdue University   *West Lafayette, IN, USA*

REASEARCH INTERN   *May. 2013 – Aug. 2013*

- Developing an OCR application for Android and iOS
- Collaboration with HP

Purdue University   *West Lafayette, IN, USA*

VERTICALLY INEGRATED PROJECT   *Aug. 2012 – Dec. 2012*

- Developing an embedded device for monitoring and controlling the CAN bus on agricultural equipment

Teaching Experience

Seoul National University   *Seoul, Korea*

TEACHING ASSISTANT   *Mar. 2018 – July. 2018*

- New Trends in Computer Vision

Seoul National University   *Seoul, Korea*

TEACHING ASSISTANT   *Mar. 2017 – July. 2017*

- Introduction to Computer Vision

Seoul National University   *Seoul, Korea*

TEACHING ASSISTANT   *Mar. 2015 – July. 2015*

- Signal Processing

Purdue University   *West Lafayette, IN, USA*

UNDERGRADUATE LAB ASSISTANT   *Aug. 2013 – May. 2014*

- First-year electrical engineering course

Republic of Korea Army *Gangwon, Korea*

SERGEANT (SIGNAL CORPSMAN / ADMINISTRATIVE CLERK) *Aug. 2009 – Jun. 2011*

- The 2nd Infantry Division

Activities and Honors

AMERICAN-KOREAN SCIENTISTS AND ENGINEERS ASSOCIATION (KSEA) – PROJECT MANAGER *2012*

ECE STUDENT SOCEITY *2012 – present*

THE NATIONAL SOCIETY OF COLLEGEIATE SCHOLARS (NSCS) *2012 – present*

DEAN's LIST *2011, 2012, 2013, 2014*

SEMESTER HONORS *2011, 2012, 2013, 2014*

LITTLE SPARTK (PURDUE KOREAN CHRISTIAN CLUB) *2008 – 2014*

Academic Services

Conference Reviewer

CVPR, ICCV, ECCV

Skills

Technical

- Python, C/C++, Pytorch , MATLAB, LATEX

Language

- Korean (Fluent), English (Fluent), Japanese (Intermediate)