

Cesc Chunseong Park

Research Interests

My research is focusing on Deep Learning and its applications in Computer Vision, Natural Language Processing and their intersection.

Keywords : Image Understanding, Story Generation for Photo Stream and Machine Translation.

Education

- Mar 15-Feb 17 (Expected) **Seoul National University (SNU), Seoul, Korea.**
- Master of Science in Computer Science and Engineering, GPA: 4.05/4.3 (Major: 4.06/4.3)
 - Advisor: Gunhee Kim (Vision and Learning Laboratory)
- Mar 12-Feb 15 **Sung Kyun Kwan University, Korea.**
- Bachelor of Science in Software, GPA: 4.35/4.5 (Major: 4.4/4.5)
 - The early admission from high-school and early graduation as a class valedictorian.

Publications

- 2015 **Cesc Chunseong Park, Gunhee Kim, *Expressing an Image Stream with a Sequence of Natural Sentences, NIPS 2015.* [PDF Link] [Code Link].**
- We propose an approach for generating a sequence of natural sentences for an image stream. While almost all previous studies have dealt with the relation between a single image and a single natural sentence, our work extends both input and output dimension to a sequence of images and a sequence of sentences.
- 2016 **Cesc Chunseong Park, Youngjin Kim, Gunhee Kim, *Retrieval of a Sequence of Sentences for an Image Stream via Coherence Recurrent Convolutional Networks, IEEE TPAMI 2016.* [Submitted].**
- Since general users often take a series of pictures on their experiences, much online visual information exists in the form of image streams, for which it would better take into consideration of the whole image stream to produce natural language descriptions. To this end, we propose a multimodal neural architecture called coherence recurrent convolutional network (CRCN), which consists of convolutional neural networks, bidirectional long short-term memory (LSTM) networks, and an entity-based local coherence model.

Professional Experience

- Nov 14-Jan 15 **SAMSUNG, Korea.**
- Internship in Software Center, AI Department.

Teaching Experience

- Sep 15-Dec 15 **Teaching Assistant of Probabilistic Graphical Models (4190.773)**
- Mar 15-Jun 15 **Teaching Assistant of Image Processing (4190.429)**

Awards

- 2014 **Software Maestro (Software)** Certificate from Minister
- 2013 **Best of the Best (Security)** Certificate from Minister

Mar 12-Dec 14 **Dean's List Awards**

Granted by Sung Kyun Kwan University

Mar 15-Dec 16 **Scholarships**

Granted by Seoul National University and Alumini Association

Mar 12-Dec 14 **Full tuition Scholarships**

Granted by Sung Kyun Kwan University

Skills

Programming Languages: Python, JAVA, C/C++, Javascript(Node.js), PHP, HTML

Framework: Tensorflow, Theano(Keras), Caffe

Models: Memory Network, RNN, LSTM, BRNN and CNN

Development Experience

Jun 14-Nov 14 **Research Reader & Developer**, *SW R&D : Open-source Development Platform which includes Knowledge Graph-Based Search and Recommendation System.*

- Many open-source projects have connections between each other by referencing or containing it. We implement open-source development platform based on knowledge graph to give the connection information about open-source projects.

Sep 13-Jun 14 **Research Reader & Developer**, *Campus CEO : Supporting Open-source Platform.*

- Many open-source projects have difficulty to grow up. We want to make the supporting platform for open-source developers.

Sep 13-Feb 14 **Researcher**, *Undergraduate R&D : DNS Cache Poisoning by using DDOS.*

- Security R&D project for DNS cache poisoning by using DDOS.

Feb 13-Sep 13 **Developer**, *Goorm (Inc) : Educational Platform.*

- Developing web based educational platform.