

Master Internship 2015

Describing Images with Sentences

Supervisors

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### Keywords

Joint Image-Text Representation, Deep Learning, Automatic Image Caption Generation.

### Project Description

The recent advent of deep learning is considered by many as the definitive answer to the problem of the automatic tagging of images with words –the focus of intense research works over many years within the computer vision community. Today, the next frontier in automatic image understanding is the automatic generation of image captions: scene-level descriptions with complex sentences.

During this internship, we will investigate joint text-image representations for complex scene understanding. The approach will focus on deep-text and deep-images models and their fusion.

### Applicant Profile

- Master Degree or Engineer Student (last year of studies).
- C++ (preferred) or Java
- Python (preferred) or Matlab
- Solid background in mathematics.
- Basic understanding of machine learning.
- Some NLP background will be considered a plus but not a requirement.
- Availability for 5 to 6 consecutive months.

**Gratification:** About 800€ net per month (approx. 1.300 Singapore dollars)

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