

Master Internship 2015  
Spatial Information Extraction in videos

Supervisors

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Presentation of the project

With the spreading of new mobile devices and video-monitoring cameras, more and more video data is available. Meaningful information should be retrieved from this data. Many research about extraction of features focus on individual objects. However, most “events” occurring in videos involves multiple objects, hence we should consider the spatial and temporal relationships between the objects.

Expected deliverables

The work objective is to propose an automatic video annotation system which extracts spatial information about objects in video frames. Firstly, we could use the approach of mereo-topology [Randell 2012 IEEE PAMI] to build a formalized model of spatial information describing the absolute object position and relative positions between pairs of objects. This information will then be processed in order to extract meaningful information in videos and identify possible events .

Keywords

Video, segmentation, spatial organization

Applicant profile

- Master Degree or Engineer Student (last year of studies).
- Skills in programming, Matlab, or Java.
- Familiarity with video processing algorithms.
- Strong motivation towards this challenging project.
- Availability for 5 to 6 months starting in the first semester of 2015.

Gratification: About 800€ net per month



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