Machine Learning methods for joint analysis of various modalities

**Doctoral School:** Doctoral School of Computer Science  
**Institute:** University of Szeged  
**Supervisor:** Richárd Farkas  

**Topic Description:**  
Data science and machine learning has been emerging recently. Separated solutions and research communities has been developed for the analysis of various modalities, e.g. numerical databases, networks, time series, textual content, image/video. On the other hand, there are usually multiple modalities available in real world tasks. For instance, a robot have to make decisions based on image, voice and various sensor data and the analysis of Twitter can utilize the textual content of tweets, the network of the user, the location of the user.

The chief objective of the doctoral topic is to develop and investigate novel machine learning algorithms which is able to jointly learn from various modalities by exploiting synergies and it can outperform the standard approach of analyzing modalities independently from each other.

**Admissible number of students:** 1  
**Deadline for applications:** 2016-09-30

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