Sentiment analysis through deep natural language processing

**Doctoral School:** Doctoral School of Computer Science  
**Institute:** University of Szeged  
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**Topic Description:**  
Recently, the popularity of social media has increased. People post messages on a variety of topics, like products and political issues and a large amount of user generated data is created in textual form. Several applications have been developed for exploiting the knowledge and information present in user generated content, like sentiment analysis whose task is to assign polarity labels (positive, negative and neutral) to textual elements.

Sentiment analysis can be applied at different levels depending on the depth of information which we would like to extract from the texts. Most of the available systems seek to identify the global sentiments of a particular document (e.g. a tweet or product review). The chief objective of the doctoral topic is to addresses deep sentiment analysis. We step beyond the bag-of-word model and utilize deep natural language processing techniques to investigate each sentences. For understanding the sentiment content of the following sentence, the research on new syntax and semantics-based methods is required. "The menu is limited but almost all of the dishes are excellent."

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

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