Deep learning techniques for Natural Language Processing

Deep learning techniques have demonstrated significant success in the area of natural language processing in recent years. This hot topic is raising interest from the scientific community with its ability of data-driven representation learning. Deep learning methods surprised the NLP community with its powerful ability to learn complex patterns from data and attaining new state-of-the-art performance in most of the NLP applications. Deep learning opens new avenues for the complicated language processing task, Machine Translation. Recently emerged Neural Machine Translation (NMT) yielded promising results and achieving state-of-the-art results for several language pairs. Additionally, deep learning has been applied to deal with, Morphologically-rich languages, Machine Translation evaluation, and quality estimation.

The main focus of this special issue is to provide insights into the research community, how the deep learning techniques will impact Natural Language Processing tasks and what are their promises, limits and the new challenges. This also provides a publication avenue for researchers who working on the recent deep learning approaches to the problems in language or text processing.

This Special Issue expects high-quality original submissions on the following topics (but not limited). Extended versions of papers published at top international conferences are also welcome.

- NLP applications with Deep learning
- Monolingual and Bilingual Embedding
- Sentiment analysis using Deep learning
- Question answering
- Similarity and Paraphrase Detection
- Social media Text Analytics with Deep learning
- Deep learning knowledge in conventional Machine Translation
- Quality estimation of Machine Translation system

**Submission guidelines:**

- Authors should follow the "Instructions for Authors" available on the Journal website.
- Submission is limited to about 15 pages.
- During submission of a manuscript add a subtitle with "Special issue on Natural Language processing"

**Important dates:**

- Paper submission: 1st July 2017
- Notification to authors: 1st October 2017

**Guest Editors:**

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Call for Papers of Special issue on

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