Special Issue

Deep Learning Methods for Natural Language Processing

Message from the Guest Editor

In recent years, Deep Learning approaches have shown great success in the field of Natural Language Processing (NLP). Recent research has demonstrated that Deep Learning based methods have achieved state-of-the-art performances on many NLP tasks including, among others, sentiment analysis, text classification, text generation, question answering, and automatic machine translation. However, many of the problems in NLP are not yet fully addressed by existing Deep Learning models and there is a need to develop new methods and models that can be used to improve the efficiency and quality of NLP systems.

The topics of interest for this Special Issue include, but are not limited to:

* Text classification
* Sentiment analysis
* Language modeling
* Text generation
* Question answering
* Text Summarization
* Information retrieval
* Text Segmentation and Clustering
* Machine translation
* Word embedding

Additionally of interest are papers that develop new Deep Learning models for NLP tasks or develop new methods for improving the efficiency and accuracy of existing Deep Learning models for NLP.

Guest Editor

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About the Journal

Message from the Editor-in-Chief

Machine learning deals with understanding intelligence to design algorithms that can learn from data, gain knowledge from experience and improve their learning behaviour over time. The challenge is to extract relevant structural and/or temporal patterns ("knowledge") from data, which is often hidden in high dimensional spaces, thus not accessible to humans. Many application domains, e.g., smart health, smart factory, etc. affect our daily life, e.g., recommender systems, speech recognition, autonomous driving, etc. The grand challenge is to understand the context in the real-world under uncertainty. Probabilistic inference can be of great help here as the inverse probability allows to learn from data, to infer unknowns, and to make predictions to support decision making.

Editor-in-Chief

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