Recent Applications of Machine Learning in Natural Language Processing (NLP)

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Message from the Guest Editors

The vibrant era of digital information has experienced a paradigm shift with the integration of machine learning in the domain of Natural Language Processing (NLP). The surge in data-driven decision making and human-like interface applications underscores the prominence and ubiquity of these technologies. This Special Issue seeks to delve deep into the recent applications of machine learning within the realm of NLP, elucidating its transformative potential in reshaping the human–computer interaction paradigm.

Relevant areas of exploration within this amalgamation of machine learning and NLP include, but are not restricted to:

- Sentiment Analysis;
- Voice Analysis and Processing;
- Entity Recognition;
- Syntax Analysis;
- Machine Translation and Summarization;
- Large Language Models;
- Question Answering;
- Chatbots and Conversational Agents;
- Image Semantic Segmentation.

In the spirit of knowledge dissemination and fostering innovation, this Special Issue aims to amass high-quality, original research papers that elucidate the recent applications, challenges, and future prospects of machine learning in NLP.

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Special Issue

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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