

Special Issue

Advances in Natural Language Processing and Their Applications

Message from the Guest Editor

In recent years, huge progress has been made in natural language processing. Initially, this progress has been related to the advent of large language models. We must acknowledge that state-of-the-art language processing and understanding systems are almost able to reach a level of performance that is close to humans, at least in some areas and applications. But still, there are lots of problems that require further analysis and investigation. How much data do we need to reach a human-level performance? Do we really need such large amounts of data? We as humans can learn from a much smaller amount of data. How can we guarantee that the model in one language will be adequately transferred to another language? How can text generation systems add emotional content to the text messages in a close-to-human way? These are only a few examples of the questions that require further research and new ideas and solutions. Of course, this is not an exhaustive list of problems that the research community faces in the area of natural language processing.

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