Special Issue

Deep Learning and Its Applications in Natural Language Processing

Message from the Guest Editors

This Special Issue, entitled "Deep Learning and Its Applications in Natural Language Processing", aims to showcase the latest advancements and innovative techniques in the intersection of deep learning and NLP. In recent years, deep learning has revolutionized the way that machines understand and generate human language, unlocking new capabilities across various NLP tasks such as machine translation, text summarization, sentiment analysis, and conversational agents. This Special Issue aims to explore both theoretical developments and practical applications, emphasizing emerging models like transformers, large language models, and multimodal architectures. We welcome contributions that address challenges such as model interpretability, bias mitigation, and multilingual understanding. In addition, we encourage submissions focused on novel methods for data augmentation, domain adaptation, and task-specific fine-tuning. By gathering insights from leading researchers, this Special Issue aims to provide an in-depth perspective on the evolving role of deep learning in NLP, contributing to our understanding and the development of future AI-driven language technologies.

Guest Editors

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Dr. Josiah Poon

Dr. Siwen Luo

Dr. Yihao Ding

Deadline for manuscript submissions

20 February 2026

About the Journal

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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