Special Issue

Knowledge Graphs and Semantic Understanding in Natural Language Processing

Message from the Guest Editor

Knowledge graphs (KGs) and semantic understanding are fundamental to advancing natural language processing (NLP), enabling machines to interpret context, relationships, and meaning more effectively. This Special Issue will contribute in the future of NLP, which is set to be transformed by the deeper integration of KGs with large language models (LLMs), enabling more advanced reasoning, the improved explainability of AI-driven decisions, and more efficient real-time data processing. Emerging trends include self-evolving KGs that dynamically update with new information; multimodal knowledge integration that fuses text, images, and structured data; and hybrid AI approaches that combine symbolic reasoning with deep learning

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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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