

## Special Issue

# Advancements in Natural Language Processing, Semantic Networks, and Sentiment Analysis

### Message from the Guest Editors

Recent advancements in Deep Learning models and the availability of multi-modal data online have motivated the necessity to develop new Natural Language Processing techniques. Pre-trained language models and large language models exemplify this. This special issue, titled "Advancements in Natural Language Processing, Semantic Networks, and Sentiment Analysis: 2nd Edition," welcomes contributions to these advanced techniques with attention to managing semantic knowledge (e.g., Sentiment Analysis and emotion detection applications) in multidisciplinary Artificial Intelligence use cases (e.g., smart health services). It provides an opportunity to advance generative Artificial Intelligence literature for academia, industry, and the general public. The call is open to theoretical and practical applications of research trends to inspire innovation. Recommended topics include advanced Sentiment Analysis and emotion detection techniques, applications of generative Artificial Intelligence (e.g., pre-trained language models), Machine Learning models in batch and streaming operations, and the study of semantic knowledge representation (e.g., semantic networks).

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### Guest Editors

Dr. Silvia García-Méndez

Dr. Enrique Costa-Montenegro

Dr. Francisco De Arriba-Pérez

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### Deadline for manuscript submissions

closed (20 March 2025)



## Applied Sciences

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## 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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### Editor-in-Chief

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