

# Special Issue

## Advanced Algorithms in Natural Language Processing and Information Extraction

### Message from the Guest Editors

A vast amount of valuable information across diverse domains resides in unstructured text, including electronic health records, scientific literature, legal documents, financial reports, and social media content. Natural language processing (NLP) and information extraction (IE) are essential for unlocking this data to enable decision-making, knowledge discovery, and automated analysis. This Special Issue is dedicated to the advanced algorithms that form the foundation of these technologies. We invite high-quality submissions presenting novel mathematical, statistical, and algorithmic approaches to NLP and IE. Topics of interest include, but are not limited to, deep learning models for domain-specific text processing, named entity recognition, relation extraction, knowledge graph construction, question-answering systems, information retrieval, and AI-driven scientific research. The goal is to highlight research that not only demonstrates practical utility across diverse application domains but also advances the theoretical underpinnings of NLP and IE in handling complex data.

### Guest Editors

Prof. Dr. Tianyong Hao

Prof. Dr. Guangyou Zhou

Dr. Xinyu He

Dr. Lu Xiang

### Deadline for manuscript submissions

31 August 2026



## Mathematics

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### Message from the Editor-in-Chief

The journal *Mathematics* publishes high-quality, refereed papers that treat both pure and applied mathematics. The journal highlights articles devoted to the mathematical treatment of questions arising in physics, chemistry, biology, statistics, finance, computer science, engineering and sociology, particularly those that stress analytical/algebraic aspects and novel problems and their solutions. One of the missions of the journal is to serve mathematicians and scientists through the prompt publication of significant advances in any branch of science and technology, and to provide a forum for the discussion of new scientific developments.

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### Editor-in-Chief

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