Special Issue

Machine Learning Approaches in Natural Language Processing

Message from the Guest Editors

Natural language processing (NLP) has seen significant advancements driven by machine learning (ML). From traditional models to deep learning architectures, breakthroughs in text classification, sentiment analysis, machine translation, and conversational AI have transformed AI's capabilities. Transformer-based models like BERT and GPT have revolutionized how we analyze, classify, and generate natural language. This Special Issue focuses on impactful ML approaches for NLP, promoting efficient, scalable, and explainable solutions to address both established and emerging challenges. We invite high-quality research articles, case studies, and technical reviews exploring innovative algorithms, methodologies, and applications of ML in NLP. We encourage submissions from academia, industry, and cross-disciplinary collaborations to address both theoretical and practical aspects of ML for NLP. This Special Issue aims to foster discussions on the next generation of intelligent language systems, driving more accurate, fair, and inclusive AI-driven language technologies.

Guest Editors

Prof. Dr. Alberto Gil Solla
Prof. Dr. Yolanda Blanco Fernández
Prof. Dr. José Carlos López Ardao

Deadline for manuscript submissions

20 October 2026

Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.5

mdpi.com/si/227267

Applied Sciences
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
applsci@mdpi.com

mdpi.com/journal/applsci

Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.5

mdpi.com/journal/applsci

MDPI

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.

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32, 20133 Milano, Italy

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, Inspec, Embase, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)