Special Issue

Application of Ontologies and Semantic Web Technologies in Biomedical Science

Message from the Guest Editors

This Special Issue aims to reflect the state of the art in these technologies and to provide guidance on future research directions. Submissions include research papers, case studies, and reviews. Topics of interest include but are not limited to the following areas:

- Knowledge representation and reasoning;
- Ontology development and enrichment;
- Ontology and linked data set quality assurance;
- Semantic harmonization and ontology alignment;
- Knowledge graphs;
- Knowledge representation systems in life sciences and medicine;
- NLP and text mining using semantic technologies;
- Novel approaches for data integration of heterogeneous data sources;
- Novel tools and ontologies for data interpretation and visualization:
- Deep learning and semantic technologies:
- Real-world ontology-based applications:
- Methods and tools for the FAIRification of datasets;
- Biomedical research objects:
- Industry use cases:
- Artificial intelligence techniques for the biomedical Semantic Web:
- Ontologies and Semantic web for decision support;
- Semantic technologies and AI explainability in biomedicine.

Guest Editors

Prof. Dr. Catalina Martinez-Costa

Department of Informatics and Systems, Faculty of Computer Science, Campus de Espinardo, University of Murcia, CP 30100 Murcia, Spain

Prof. Dr. Jesualdo Tomás Fernández Breis

Department of Informatics and Systems, Faculty of Computer Science, Campus de Espinardo, University of Murcia, CP 30100 Murcia, Spain

Deadline for manuscript submissions

closed (15 April 2022)



Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5 CiteScore 5.5



mdpi.com/si/77635

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

mdpi.com/journal/

applsci





Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5 CiteScore 5.5



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, CAPlus / SciFinder, and other databases.

Journal Rank:

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

