



Application of Ontologies and Semantic Web Technologies in Biomedical Science

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Deadline for manuscript submissions:

closed (15 April 2022)

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.





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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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