Special Issue

Knowledge Representation Formalisms for AI Applications

Message from the Guest Editors

In the complex challenge of designing intelligent systems in the Big Data era, an adequate representation of knowledge, sometimes considering uncertainty and incompleteness, and an easy-to-understand approach to automated reasoning are required. These are notable aspects of formal representation systems, suitable for making decisions through software agents trained in solving real problems of different natures such as explainability and interpretability of results, hybrid KR&R-Machine Learning, query answering, cybersecurity, the semantic web, and multi-agent systems. The growing demand for the explainability of AI systems operating in the aforementioned domains is also confirmed by the increasing demand that humans can clearly understand the decisions provided by these systems.

The overall aim of this Special Issue is to collect stateof-the-art research findings on the latest developments, up-to-date issues, and challenges in the field of knowledge representation formalisms in support of AI domains. Proposed submissions should make significant methodological or application contributions. This Special Issue should be of interest to the AI community.

Guest Editors

- Dr. Gianvincenzo Alfano
- Dr. Alejandro Javier García
- Dr. Francesco Parisi

Deadline for manuscript submissions

closed (31 December 2023)



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About the Journal

Message from the Editor-in-Chief

Big Data and Cognitive Computing (BDCC) is a scholarly online journal which provides a platform for big data theories with emerging technologies on smart clouds and exploring supercomputers with new cognitive applications. It is a peer-reviewed, open access journal that publishes high quality original articles, reviews and short communications. The primary aims of this journal are to encourage contributions of high quality scientific papers relating to data management and analytics in industry, such as manufacturing, healthcare, education, media and business, data mining, and cognitive science. There is no restriction on the maximum length of the papers.

Editor-in-Chief

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