Special Issue

Data, Structure, and Information in Artificial Intelligence

Message from the Guest Editor

We live in a time where information has become visible, and its importance, highly consequential. Recent advances in our understanding of information processing structures are shaping the theory and practice of how we interact with each other and our environment. The following structures play key roles in these advances:

- The genome and its ability to create autopoietic systems through information coding and managing of physical and chemical processes in nature.
- The digital computing structures and their ability to model, monitor, and manage information processing and communication between us and our environment.
- New mathematics of named sets, knowledge structures, cognizing agents and structural machines, which provide a theoretical framework of unified information processing mechanisms going beyond symbolic computing and neural networks.

This Special Issue is aimed at bringing together contributions from multiple disciplines dealing with information processing structures and their evolution, with the purpose not only to understand how intelligence is evolving in nature but also to design and build a new class of artificially intelligent machines.

Guest Editor

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Deadline for manuscript submissions

closed (30 November 2022)

Big Data and Cognitive Computing

an Open Access Journal by MDPI

Impact Factor 4.4
CiteScore 9.8

mdpi.com/si/82259

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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.

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