



Explainable Computational Intelligence, Theory, Methods and Applications

Guest Editor:

Dr. Shengkun Xie

Global Management Studies, Ted
Rogers School of Management,
Toronto Metropolitan University,
Toronto, ON M5G 2C3, Canada

Deadline for manuscript
submissions:

closed (31 December 2021)

Message from the Guest Editor

Explainable AI, explainable data analysis, and explainable data analytics are now playing an important role in machine learning and artificial intelligence. To better understand the natural variation and pattern, attempts to improve the data interpretability have been an ongoing challenging problem, mainly in the area of complex statistical data analysis.

Recently, research on explainable computational intelligence has gained much attention in many fields of study, including engineering, science, and social science. This Special Issue aims at promoting advanced mathematical, statistical, and computational techniques, which help to improve explainable data analysis or understanding the models that we consider. The techniques include but are not limited to:

- Sparse statistical methods;
- Feature extraction and data fusion;
- Explainable artificial neural networks;
- Data dimension reduction;
- Functional data analysis;
- Time–frequency domain approaches.

Both theoretical development and applied work, including application and methodological development, are welcome.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Ali Cemal Benim

Center of Flow Simulation (CFS),
Department of Mechanical and
Process Engineering, Duesseldorf
University of Applied Sciences, D-
40476 Duesseldorf, Germany

Message from the Editor-in-Chief

You are invited to submit the results of your research for consideration and publication in *Computation*, an international open access journal, which is published quarterly online by MDPI.

The editorial board and staff of *Computation* are dedicated to establishing a benchmark journal for the world scientific and engineering communities for original research articles, reviews, conference proceedings (i.e., peer reviewed full articles), and communications, in the cutting-edge areas of computational biology, computational chemistry, and computation in engineering.

Author Benefits

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

High Visibility: indexed within Scopus, ESCI (Web of Science), CAPlus / SciFinder, Inspec, dblp, and other databases.

Journal Rank: CiteScore - Q2 (*Applied Mathematics*)

Contact Us

Computation Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/computation
computation@mdpi.com
[X@ComputationMDPI](https://twitter.com/ComputationMDPI)