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# Explainable Computational Intelligence, Theory, Methods and Applications

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Deadline for manuscript submissions: closed (31 December 2021)



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.









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