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Explainability Methods in Artificial Intelligence

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Message from the Guest Editor

This Special Issue aims to provide a comprehensive overview of the latest developments and trends in XAI, and will cover a wide range of topics related to the transparency and interpretability of AI systems. We invite submissions from researchers working in areas such as machine learning, computer vision, natural language processing, and other fields that are relevant to explainable AI.

- techniques for visualizing and interpreting deep neural networks
- methods for generating human-readable explanations of AI decisions
- approaches for evaluating the interpretability of AI models
- research on the trade-offs between model complexity and interpretability
- integration of explainability methods with other AI tasks, such as fairness and robustness
- theoretical foundations and frameworks for explainable AI
- case studies and real-world applications of explainable AI
- human–AI interaction and explainability in human-in-the-loop systems
- natural language generation models and chatbots
- advancement in explainable AI in various domains, such as healthcare, autonomous systems, education, and finance
- surveys of explainable ai systems and applications

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Editor-in-Chief

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Message from the Editor-in-Chief

Algorithms are the very core of Computer Science. The whole area has been considered from quite different perspectives, having led to the development of many sub-communities: Complexity theory (limitations), approximation or parameterized algorithms (types of problems), geometric algorithms (subject area), metaheuristics, algorithm engineering, medical imaging (applications), indicates the range of perspectives. Our journal welcomes submissions written from any of these perspectives, so that it may become a forum for exchange of ideas between the corresponding scientific subcommunities.

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