

Special Issue

Explainable and Trustworthy Artificial Intelligence for Data-Driven Decision Support

Message from the Guest Editors

Artificial Intelligence (AI) is rapidly transforming data science, enabling powerful analytics, automation, and decision support across sectors. Yet, as AI solutions increasingly influence high-stakes decisions, ensuring their transparency, fairness, and robustness has become critical. This Special Issue invites scholars to submit high-quality contributions that advance explainable and trustworthy AI approaches for data-driven decision-making. We welcome studies that develop or apply methods addressing interpretability, uncertainty quantification, fairness, robustness, and accountability in complex data science workflows. Of particular interest are applications in healthcare and clinical decision support, engineering, and finance, where explainability and trustworthiness directly impact safety, ethics, and adoption by practitioners. Submissions may include novel algorithms, frameworks, or empirical studies demonstrating how explainable AI enhances confidence, interpretability, and effectiveness in real-world data environments.

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Message from the Editor-in-Chief

Informatics (ISSN 2227-9709) is an international, peer-reviewed, open access journal, which publishes original theoretical and empirical work on the science of informatics and its application in multiple fields. Our concept of Informatics includes technologies of information and communication as well as the biological, social, linguistic and cultural changes that initiate, accompany and complicate their development. *Informatics* publishes regular research articles, reviews and short notes. There is no restriction on the length of papers, and we encourage researchers to publish their theoretical and empirical results in as much detail as possible. The scientific community and the public have unlimited and free access to the content as soon as it is published. We would be pleased to welcome you as one of our authors.

Editor-in-Chief

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