

## Special Issue

# The Explainable AI Revolution: From Black Boxes to Transparent Insights

### Message from the Guest Editors

This Special Issue invites researchers to contribute original research exploring the burgeoning field of explainable artificial intelligence (XAI). As AI models become increasingly complex and integrated into critical applications, the demand for transparency, interpretability, and trustworthiness has never been more pressing. This Special Issue aims to gather cutting-edge advancements in XAI methodologies, applications, and their societal implications. We welcome submissions that delve into novel techniques for interpreting diverse AI models, evaluate the effectiveness of XAI in real-world scenarios, and address the ethical, legal, and social challenges associated with deploying transparent AI systems. Topics of interest include, but are not limited to, post hoc explanation methods, intrinsically interpretable models, fuzzy logic-based XAI, explainable fuzzy neural networks, causality in XAI, human–AI collaboration for interpretability, user studies on XAI effectiveness, and the role of XAI in ensuring fairness and accountability in AI decision making.

### Guest Editors

Dr. Raheleh Jafari

Dr. Alexander Gegov

Dr. Farzad Arabikhan

Dr. Alexandar Ichtev

### Deadline for manuscript submissions

15 March 2026



## Electronics

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## About the Journal

### Message from the Editor-in-Chief

*Electronics* is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guestedited by leading experts in selected topics of interest.

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### Editor-in-Chief

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