



Emerging Technologies in Explainable Artificial Intelligence (XAI) for Big Data

Guest Editors:

Dr. Sardar Jaf

School of Computer Science,
University of Sunderland,
Sunderland SR1 3SD, UK

Dr. Qiang Huang

Department of Computer
Science, The University of
Sunderland, Sunderland NE36
0AS, UK

Dr. Ibrahim Ghafir

Department of Computer
Science, University of Bradford,
Bradford BD7 1DP, UK

Deadline for manuscript
submissions:

closed (15 August 2024)

Message from the Guest Editors

Dear Colleagues,

Artificial intelligence applications, methods, techniques, and approaches are rapidly advancing. Although they contribute positively to many aspects of our lives, there are major concerns about how they process and learn from our information, their critical decision-making, etc. There is increasing demand from individuals in societies, businesses, organizations, and government bodies to increase our understanding of AI applications in performing tasks. The need for explainable AI has prompted researchers, businesses, and governments to take action to increase form theories and application designs that allow transparency and explanations of the processes and decisions of AI algorithms and products. Thus, this Special Issue invites the contribution of original theoretical or applied research, as well as survey papers, related to methods, approaches, and techniques to explain AI in relation to big data.

Research areas may include (but are not limited to) the following:

- Theory and foundations of explainable AI using big data
- Methods and standards for explainable AI
- Analyses of AI or machine learning model training
- Explainable machine learning algorithms





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Flavio Canavero

Department of Electronics and
Telecommunications,
Politecnico di Torino, 10129
Torino, Italy

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.

Author Benefits

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

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

Journal Rank: JCR - Q2 (Engineering, Electrical and Electronic) / CiteScore - Q1 (Signal Processing)

Contact Us

Electronics Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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

mdpi.com/journal/electronics
electronics@mdpi.com
[X@electronicsMDPI](https://twitter.com/electronicsMDPI)