



Interpretable Deep Learning in Electronics, Computer Science and Medical Imaging

Guest Editor:

Prof. Dr. Yoichi Hayashi

Artificial Intelligence Lab,
Department of Computer
Science, Meiji University,
Kawasaki, Kanagawa 214-8571,
Japan

Deadline for manuscript
submissions:

closed (31 August 2020)

Message from the Guest Editor

Artificial intelligence (AI), particularly, deep learning (DL), which involves automated feature extraction using deep neural networks (DNNs), has been used increasingly by electronics engineer, computer scientist, and physicians. AI can analyze computer vision and medical images at a level not possible by a single person. However, the resulting parameters are difficult to interpret.

The aim of the Special Issue is to help realize interpretable DL in electronics, computer science, and medical imaging, and help to establishing accountability in medical imaging to explain the classification results clearly. Topics of interest of this Special Issue include, but are not limited to:

- Interpretable DL in electronics
- Interpretable DL in computer science
- Interpretable DL in medical imaging
- Non-black-box machine learning
- Interpretable large decision trees and random forests
- Interpretable machine learning
- Converting deep neural network to decision trees
- Interpretable decision trees

Welcome to contribute!





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 guest-edited 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 (Physics, Applied) / CiteScore - Q2 (Control and Systems Engineering)

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://x.com/electronicsMDPI)