Special Issue

Recent Progress in Explainable Artificial Intelligence and Low-Power Machine Learning

Message from the Guest Editors

In recent years, there has been a notable surge in the popularity of explainable AI and low-power machine-learning techniques. Despite achieving remarkable performance, many AI models, such as deep-learning approaches, often remain impenetrable to human understanding, earning them the moniker "black boxes". This lack of transparency hinders our ability to comprehend the rationale behind AI-driven decisions, raising concerns about accountability, ethics, and trustworthiness. Furthermore, the extensive computational demands of most advanced AI systems contribute to a significant carbon footprint, exacerbating environmental concerns. In response to these challenges, we are pleased to announce a Special Issue dedicated to exploring recent advancements in explainable AI and low-power machine-learning techniques. We aim to facilitate the exchange of ideas and insights among researchers, practitioners, and policymakers working at the forefront of explainable AI and low-power machine learning. We invite original research papers, review articles, and case studies that contribute to advancing our understanding of these crucial areas and their applications in solving complex problems.

Guest Editors

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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.

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