# 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 machinelearning techniques. Despite achieving remarkable performance, many Al 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 Al-driven decisions, raising concerns about accountability, ethics, and trustworthiness. Furthermore, the extensive computational demands of most advanced Al 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 Al 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**

Prof. Dr. Ole-Christoffer Granmo

Prof. Dr. Lei Jiao

Prof. Dr. Rishad Shafik

Prof. Dr. Alex Yakovlev

### Deadline for manuscript submissions

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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.

#### Editor-in-Chief

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