# Special Issue

# New Concepts in Human-Computer Interaction Design and Application

## Message from the Guest Editor

With the rapid advancement of large language models, generative AI, and agents, the paradigms and applications of human-computer collaborative design are undergoing profound transformations. These technologies not only extend the boundaries of creativity and intelligence but also revolutionize the design process by integrating multimodal data, including text, images, and audio. LLMs can accurately comprehend and generate high-quality content across various contexts, while AIGC, building on learning and induction, further evolves and creates by simulating human creative thinking, thus achieving a leap from perception and understanding to generation and creation. Agents, with their advanced features such as context-aware memory, multi-step planning, and strategic tool usage, further augment the capabilities of LLMs. Al is no longer merely a tool; it acts as an extension of human intent, actively engaging in design and production practices. These technological advancements are ushering in a new era in the design field, characterized by increasingly diverse and intelligent design paradigms and application trends.

### **Guest Editor**

Prof. Dr. Yi Xiao School of Design, Hunan University, Changsha 410082, China

## Deadline for manuscript submissions

closed (15 March 2025)



# **Electronics**

an Open Access Journal by MDPI

Impact Factor 2.6 CiteScore 6.1



mdpi.com/si/215251

Electronics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
electronics@mdpi.com

mdpi.com/journal/electronics





# **Electronics**

an Open Access Journal by MDPI

Impact Factor 2.6 CiteScore 6.1



# **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 guest-edited by leading experts in selected topics of interest.

#### Editor-in-Chief

Prof. Dr. Flavio Canavero

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

### **Author Benefits**

### **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 (Electrical and Electronic Engineering)

## **Rapid Publication:**

manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.4 days after submission; acceptance to publication is undertaken in 2.4 days (median values for papers published in this journal in the second half of 2024).

