

Special Issue

Artificial Intelligence for Virtual, Mixed, and Augmented Reality Content and Interaction

Message from the Guest Editor

Recent years have witnessed rapid advancements at the intersection of artificial intelligence-generated content (AIGC) and extended reality (XR)—encompassing virtual reality (VR), mixed reality (MR), and augmented reality (AR). Driven by breakthroughs in generative AI (e.g., GANs, stable diffusion, and large language models) and the commercialization of cutting-edge hardware such as Apple Vision Pro, XR technologies are transitioning from niche tools to mainstream platforms, demanding more dynamic, personalized, and contextually adaptive content and interactions. This Special Issue invites original research articles, reviews, and case studies on related topics, including AIGC-driven XR content generation and personalization, agent-based systems in VR/AR/MR, and LLM integration for natural interaction and contextual storytelling. Applications span multisensory use cases in cultural heritage, healthcare, and education, alongside investigations into ethical, legal, and societal implications of AI-XR convergence.

Guest Editor

Prof. Dr. Yi Xiao

School of Design, Hunan University, Changsha 410082, China

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

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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 guestedited 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

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