Special Issue

New Trends in Representation Learning

Message from the Guest Editors

Representation learning stands at the forefront of artificial intelligence research, driving paradigm shifts across domains ranging from natural language processing to biomedical informatics. The rapid evolution of self-supervised learning, multimodal fusion, and geometric deep learning has unlocked unprecedented capabilities in extracting hierarchical patterns from complex data. However, fundamental challenges persist in scalability, interpretability, and cross-domain generalization, necessitating novel methodologies to bridge these gaps. This Special Issue of *Electronics* seeks to explore cutting-edge advances that redefine how machines capture and utilize semantic, structural, and causal representations. We focus on architectures that transcend traditional feature engineering, enabling autonomous discovery of transferable knowledge across modalities and tasks—a capability that is critical for real-world applications in healthcare, robotics, and scientific discovery.

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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.

Editor-in-Chief

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