Special Issue

Advances in Object Tracking and Computer Vision

Message from the Guest Editors

Object tracking is a fundamental component of many computer vision applications, such as video surveillance, autonomous driving, human–computer interaction, and augmented reality. Its core objective is to locate and follow objects of interest across frames in a video sequence, which requires understanding object motion dynamics and adapting to various visual transformations. Over the past few decades, a wide range of tracking algorithms have been developed, from classical methods such as Kalman filters and optical flow to modern, deep learning-based techniques that leverage convolutional neural networks (CNNs), recurrent networks, transformers, and even large language models. As new challenges emerge and computational capabilities evolve, object tracking continues to be a vibrant and critical area of research. This Special Issue aims to showcase cutting-edge research on both traditional and emerging methods in object tracking. We welcome original research articles and reviews that explore theoretical advancements, methodological innovations, and practical applications.

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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 guestedited by leading experts in selected topics of interest.

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