Special Issue

Latest Research on Computer Vision and Its Application

Message from the Guest Editors

This Special Issue explores the latest advancements in computer vision and its expanding role in solving real-world challenges. Inspired by interdisciplinary innovations in deep learning, autonomous systems and AI-driven edge devices, this issue bridges theoretical research with real-world implementation. For instance, visual SLAM systems have dramatically improved localization accuracy and autonomy for unmanned vehicles in GPS-denied environments. In industrial manufacturing lines, automated visual inspection can identify tiny surface flaws in products with superhuman accuracy and efficiency. By showcasing both theoretical breakthroughs and industry-driven case studies, this special issue welcomes contributions that demonstrate recent advances in computer vision and its applications. The call covers but not limits to a wide range of areas including visual perception and reconstruction, industrial visual inspection, vision-language models and applications, AI-driven edge computing, and innovative advances in the field.

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As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

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