

Special Issue

Advanced Computer Vision Techniques: AI-Based Object Detection, Tracking, Surveillance and Security Applications

Message from the Guest Editors

This Special Issue aims to explore advanced approaches in computer vision, focusing on AI-based object detection, tracking, surveillance, and security applications. We welcome the submission of papers related to image-, text-, or multimodal-based applications in computer vision and image processing from theoretical and practical perspectives. In particular, this Special Issue encourages the submission of papers focused on practical areas such as vehicles, bio-medical engineering, surveillance, etc., that outline the latest industrial and research trends. As artificial intelligence (AI) has brought about significant improvements in many aspects of human life, diverse approaches using AI techniques are of particular interest to this Special Issue. Contributions on practical implementations in areas like public safety, surveillance systems, and intelligent security systems are also encouraged. In addition to the performance of AI-based detection, tracking, recognition, etc., approaches to efficient AI models, e.g., lightweight deep learning models, are also of interest to this Special Issue.

Guest Editors

Dr. Deokwoo Lee

Department of Computer Engineering, Keimyung University, Daegu 704-701, Republic of Korea

Dr. Yohan Park

Next-Generation Information Security Laboratory (NISL), College of Engineering, Keimyung University, Daegu 24601, Republic of Korea

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Applied Sciences
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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Message from the Editor-in-Chief

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

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32,
20133 Milano, Italy

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