

## Special Issue

# New Trends in Computer Vision and Image Understanding

### Message from the Guest Editors

Recent advances in deep learning architectures for computer vision and image understanding continue to revolutionize numerous fields, from vehicular technologies to healthcare, through the robotics and automation industries. Building solutions based on current deep learning architectures has been made possible thanks to improved hardware acceleration platforms and the increased availability of rich training datasets from different sensing modalities, such as cameras and LiDAR systems. These recent advances in vision and image understanding have been successfully applied to complex problems and are creating new opportunities, but due to their computationally intensive nature, they are also bringing significant challenges, including a limited applicability to resource-constrained scenarios and a high environmental footprint. This Special Issue focuses on state-of-the-art contributions in the field of computer vision, with specific interest in image understanding. We invite researchers to submit papers exploring novel deep learning architectures for computer vision and image understanding, new application areas, and novel approaches to deal with existing challenges.

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### Guest Editors

Dr. Jesus Requena-Carrión

Dr. Qianni Zhang

Dr. Nikesh Bajaj

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### Deadline for manuscript submissions

closed (10 September 2024)



## Applied Sciences

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## About the Journal

### 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.

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### Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo  
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