Special Issue

Application of Computer Vision and Deep Learning in Construction Engineering

Message from the Guest Editors

This Special Issue focuses on innovative research and practical applications leveraging computer vision and deep learning techniques within the domain of construction engineering. We encourage submissions highlighting novel methods, theoretical advancements, experimental studies, and comprehensive reviews addressing challenges and opportunities for integrating these technologies into construction practices. Areas of particular interest include, but are not limited to, automated detection and classification of construction defects, site safety monitoring through image and video analytics, 3D reconstruction and progress monitoring using UAV-based photogrammetry, digital twin creation and management, real-time personnel and equipment tracking, and advanced predictive analytics for project management. Submissions should emphasize both technical developments and practical implications to enhance efficiency, safety, and quality outcomes in construction engineering.

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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.

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