

Special Issue

The Applications of Artificial Intelligence in the Management of Construction Engineering Projects

Message from the Guest Editors

The integration of Artificial Intelligence (AI) into construction and engineering marks a transformative era, offering unprecedented opportunities for efficiency, safety, and innovation. This Special Issue seeks to explore the depth and breadth of AI applications, from advanced robotics and 3D printing to project management and maintenance optimisation. We invite contributions that showcase current AI implementations in construction management and critically analyse future opportunities and challenges. We are particularly interested in submissions that explore sustainable applications of AI, its role in enhancing safety protocols, and the impact of its on-site construction management applications and engineering project management. We welcome original research articles, case studies, and comprehensive reviews focusing on, but not limited to, the following topics:

- AI in sustainable construction practices;
- Robotics and automation in safety management;
- AI applications in project scheduling and resource allocation;
- The impact of machine learning on cost estimation and risk management.

Guest Editors

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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

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