

Special Issue

AI in Designing, Building and Maintaining Infrastructure Facilities

Message from the Guest Editor

With the increasing demand for efficiently designing, constructing, and maintaining infrastructure facilities, there is a critical need to incorporate AI in the engineering and management of infrastructure facilities. AI plays a key role in designing, building, and managing infrastructure through automation, robotics, and smart systems. AI technologies can enable engineers and managers to (1) optimize construction materials in designing, (2) utilize robots in constructing, and (3) install smart sensors in managing infrastructure facilities while emphasizing sustainability aspects of the AI-enabled design, robotic construction, and smart maintenance operations. Various AI technologies can also be adopted to mitigate the impacts of climate changes on infrastructure performance. This Special Issue aims to publish high-quality research papers and state-of-the-art review articles that focus on AI applications in design, construction, and management of infrastructure facilities. Submissions to this Special Issue should focus on various advances in AI technologies that have taken place worldwide in designing, constructing, and maintaining resilient and sustainable infrastructures.

Guest Editor

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