AI

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Artificial Intelligence and Sustainable Civil Engineering

Guest Editors:

Dr. Ali Behnood
Indiana Department of Transportation, Crawfordsville, IN, USA

Prof. Dr. Moncef L. Nehdi
Department of Civil and Environmental Engineering, Western University, London, ON N6A 5B9, Canada

Dr. Max Ziyadi
Lucid Motors, Newark, CA, USA

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Message from the Guest Editors

Artificial intelligence (AI), due to its capabilities in knowledge processing, pattern recognition, prioritization, and optimization, is among the leading techniques to solve complex engineering problems. AI methods provide a wide variety of benefits, including more sustainable solutions with improved accuracy and reliability while saving in cost, energy, time, as well as physical and human resources. AI has the potential to enhance sustainability by detecting damage and distress, predicting extreme weather conditions and natural hazards, enhancing automated systems, monitoring infrastructure conditions, developing predictive models, and helping towards greener transportation and engineering.

This Special Issue welcomes contributions, including but not limited to:

- AI and sustainable infrastructure;
- AI and cleaner production;
- Automated and green systems;
- AI and additive manufacturing;
- Smart cities;
- Digital twins and sustainability;
- AI and green transportation;
- AI and cleaner engineering;
- AI and responsible consumption;
- AI and cleaner materials.

We look forward to receiving your contributions.