# **Special Issue**

# Hydraulic Engineering Applications of Artificial Intelligence, Deep Learning, and Digital Twin Technology

## Message from the Guest Editors

The emergence of digital twin technology provides technical support for intelligent water conservancy project construction, covering functions ranging from forecasting to early warning, previewing, and preplanning and providing forward-looking, scientific. precise, and safe support for decision-making and management. Combined with traditional hydraulic engineering safety monitoring methods, such as geotechnical tests and numerical simulation, artificial intelligence algorithms, deep learning methods, and digital twin technology can help solve more complex problems, which is of great theoretical significance and application value, ensuring project safety. Therefore, this Special Issue will focus on artificial intelligence, deep learning methods, and digital twin technology in hydraulic engineering construction. We would like to invite you to submit your research papers on suitable topics including but not limited to the following: Hydraulic engineering information perception, Intelligent processing methods of safety monitoring data, Application of digital twin technology in hydraulic engineering, Intelligent safety monitoring models, Systems of hydraulic engineering.

#### **Guest Editors**

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### Deadline for manuscript submissions

20 August 2025



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### Message from the Editor-in-Chief

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#### Editor-in-Chief

#### Dr. Jean-Luc PROBST

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