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Application of Artificial Intelligence in Hydraulic Engineering

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Message from the Guest Editors

The intelligent algorithm has become an important research method to solve critical scientific problems in the engineering field. It has been widely used in the optimal design, structural simulation, safety monitoring and safety evaluation of water conservancy projects due to its advantages in regression, classification, clustering and dimension reduction. Experiments and numerical simulations are faced with constraints of time and cost in traditional research methods. With the advancement of sensors and measurement technology, a large amount of safety-monitoring data has been accumulated in water-conservancy projects. Intelligent algorithms have become a powerful tool for monitoring data, mining information and constructing data associations quickly and accurately. Combined with traditional computing techniques such as geotechnical tests, non-destructive testing and numerical simulation, intelligent algorithms will help us further understand various laws and mechanisms in water-conservancy projects[...]

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Special Issue



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Message from the Editor-in-Chief

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