Special Issue

Structural Health Monitoring for Concrete Dam

Message from the Guest Editors

Monitoring is a vital tool that is used to detect anomalies in dam behavior and thereby minimize the risk of catastrophic failures. The prediction and interpretation of dam behavior, based on the data gained by carrying out measurements, represent important tasks for dam engineers. In this Special Issue, we seek high-quality submissions of original research articles regarding all aspects related to structural health monitoring for concrete dams. We welcome both theoretical and application papers of high technical standards across various disciplines, thus facilitating an awareness of techniques and methods in one area that may apply to other areas. Topics of interest include, but are not limited to:

- Gravity, arches, buttresses, and RCC dams;
- Monitoring, surveillance, and field measurement methods;
- Safety monitoring facilities and non-destructive testing;
- Data processing methods;
- Prediction models;
- Inverse analysis;
- Evaluation methods;
- Advanced machine learning techniques and numerical analysis techniques;
- Dam safety and security;
- Risk-informed decision making.

Guest Editors

Prof. Dr. Tongchun Li

College of Water Conservancy and Hydropower Engineering, Hohai University, Nanjing 210098, China

Dr. Chaoning Lin

College of Civil and Transportation Engineering, Hohai University, Nanjing 210098, China

Deadline for manuscript submissions

closed (20 May 2025)

Applied Sciences

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About the Journal

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

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32, 20133 Milano, Italy

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