

## Special Issue

# Machine Learning for Civil Engineering: Recent Advances and Applications

### Message from the Guest Editors

The civil engineering sector is undergoing a transformative shift through the integration of machine learning techniques into design, analysis, monitoring and decision-making processes. This Special Issue aims to explore the latest advances and practical applications of machine learning across all branches of civil engineering, including structural health monitoring, geotechnical modeling, hydraulic forecasting, traffic and transport systems, smart infrastructure and construction optimization. We invite original research articles, review papers and case studies that highlight innovative uses of supervised, unsupervised and reinforced learning techniques in civil engineering contexts. Contributions should emphasize real-world implementations, data challenges, model deployment, interpretability and performance evaluation in operational environments. This Special Issue seeks to bridge the gap between data-driven methods and civil engineering practice, providing a comprehensive reference for researchers, practitioners and policy-makers interested in the integration of AI into infrastructure and the built environment.

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### Guest Editors

Dr. Virginia Mato-Abad  
Dr. Alberto José Alvarelos González  
Dr. Daniel Carreres Prieto

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### Deadline for manuscript submissions

20 November 2026



## Applied Sciences

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### 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.

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### Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo  
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