

Special Issue

Machine Learning Models for Sustainable Composite Materials

Message from the Guest Editors

This Special Issue welcomes original research articles that advance the state of the art in data-driven modeling of sustainable composites. We invite papers related, but not limited to, the following research areas:

- Numerical simulation of composite structures.
- Predictive and statistical modeling of composites.
- Sustainability of concrete.
- Reinforced concrete structures.
- Structural retrofitting with fiber-reinforced composites.
- Dynamic response of composites under impact loading.
- Composites in armor design.
- Lightweight design with composites.
- Optimization techniques and their applications to composites.
- Modeling and simulation of laminated composites.
- Buckling and dynamic response of thin-walled structures.
- Composites made of natural fibers.
- Analysis of fiber–matrix interface and bond strength.
- Computational modeling of fatigue life and fracture toughness.
- Behavior of composites under thermal stresses.
- Composites in energy-efficient building design.

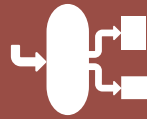
This Special Issue also welcomes experimental research papers, as machine learning models heavily rely on experimental data.

Guest Editors

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Prof. Dr. Gebrail Bekdaş

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