Special Issue

Recent Advances in Soil–Structure Interaction

Message from the Guest Editors

Soil–structure interaction (SSI) refers to the reciprocal effects between soil and the structures built upon or within it. This interaction is crucial in civil and geotechnical engineering, as it affects the stability, safety, and performance of structures under various loading conditions, including static loads, dynamic loads (like earthquakes), and environmental changes. This Special Issue requests original research papers, review articles, and case studies that contribute to the field of SSI effects. Potential topics include, but are not limited to, the following:

- Advances in numerical modeling techniques for SSI effects;
- SSI effects on complex foundation systems (e.g., piled-raft foundations);
- SSI effects on earth retaining structures;
- SSI effects on tunnels and embedded structures;
- Advances on dynamic SSI effects (SSI under earthquake loading or dynamic loadings);
- Impacts of climate change on soil–structure performance;
- Innovative materials and construction techniques for improved SSI performance;
- Case studies of recent infrastructure projects, where SSI effects affected the design process;
- SSI effects in a multi-hazard environment.

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Message from the Editor-in-Chief

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