

Special Issue

Novel Approaches for Optimal Design and Seismic Performance Assessment for Civil Structures

Message from the Guest Editors

The advent, development, and application of novel “smart” materials in Civil Engineering structures (for instance, SMA bars and devices) have led to a new perspective on the optimum design and performance evaluation of such structures under seismic actions. Moving towards this goal, new techniques have recently been introduced, such as advanced computational modeling, artificial intelligence, neural networks, and fuzzy logic tools. Since earthquakes are mostly unpredictable, contributions on the best performance of Civil Structures (buildings, bridges, offshore and coastal installations, wind turbines, etc.) against seismic actions using novel approaches are welcome in this Special Issue. Moreover, scientific disciplines in close relation include soil–structure interaction, stability, and dynamics. Finally, the broad spectrum of earthquake engineering by no means prohibits any other contributions to the field.

Guest Editors

Prof. Dr. Dimitris Sophianopoulos

Department of Civil Engineering, University of Thessaly, Volos, Greece

Dr. Charalampakis Aristotelis

Department of Civil Engineering, University of West Attica, Athens, Greece

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Applied Sciences
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
applsci@mdpi.com

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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.

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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