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Shape Memory Alloy (SMA): A Smart Material for Smart and Resilient Systems

Guest Editors:

Dr. Ehsan Noroozinejad Farsangi

Prof. Dr. Mohammad Noori

Prof. Dr. Paolo Gardoni

Prof. Dr. Shaofan Li

Dr. Farhad Aslani

Deadline for manuscript submissions:

closed (31 March 2023)

Message from the Guest Editors

Shape memory alloys (SMAs) are high-performance metallic materials that have attracted significant research attention recently in the field of civil, mechanical, and aerospace engineering. This Special Issue will focus on the theory and application of SMAs in order to understand the response of these materials to external stimuli such as force, displacement, temperature, magnetic fields, irradiation, and corrosive media toward smarter and more resilient societies.

It will showcase some of the latest efforts advancing the frontiers of structural and mechanical engineering by utilizing SMAs. Topics include but are not limited to the following:

- Smart Vibration Control Systems Utilizing SMAs;
- Smart Dampers Utilizing SMAs;
- Smart Seismic Isolation Systems Utilizing SMAs;
- Smart Structural Systems Utilizing SMAs;
- Re-Centring Ability of SMA-Based Systems;
- Corrosion and Ageing Resistance of SMA-Based Systems;
- Hysteresis Behavior of SMA-Based Systems;
- Applications of SMAs in Real Structures;
- SMA-Based Seismic Retrofitting and Rehabilitation;
- Macro-Modeling and Numerical Simulation of SMA-Based Systems/Devices;
- The High Damping Capacity of Shape Memory Alloys.



mdpi.com/si/102169

Special Issue



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Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro

Department of Electrical and
Information Engineering,
Politecnico di Bari, Via Orabona
4, 70126 Bari, Italy

Message from the Editor-in-Chief

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Sensors Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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