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Shape Memory Alloys for Civil Engineering

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Deadline for manuscript submissions:
closed (20 October 2022)

Message from the Guest Editors

Dear Colleagues,

Shape memory alloys (SMAs) are capable of recovering large strains, either spontaneously or by heating, depending on their thermal-mechanical state. Since the early development in the 1960s, SMAs have been successfully applied in the medical, aerospace, robotic, and automobile industries. The consideration of SMA as emerging materials for civil engineering started in the 1990s, and great research progress has been made since then. This Special Issue plans to give an overview of the most recent advances in the field of SMA research and applications in civil engineering. It aims to help remove knowledge barriers across disciplines, and sheds considerable light on the opportunity of commercializing SMA products in the construction industry.
Potential topics include, but are not limited to:

- Advanced modelling of SMA;
- Heat treatment strategies for SMA;
- SMA-based self-centering structural elements, devices and members;
- SMA for structural retrofitting;
- Performance-based design of structural systems incorporating SMA;
- Development and application of new classes of SMA;
- New SMA elements and devices.

Prof. Dr. Cheng Fang
Prof. Dr. Canxing Qiu
Dr. Yue Zheng

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Special Issue

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Message from the Editor-in-Chief

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