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Advanced Concrete Technology – Smart and Multifunctional Cementitious Composites

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Message from the Guest Editors

Dear Colleagues,

Many in-service civil infrastructure assets are reaching their service lives, requiring extensive condition assessment, repair, and rehabilitation to keep them safe and functional. Accordingly, recent technology advances in the field of smart cementitious composites are attracting significant attention as they offer various innovative functionalities in concrete infrastructure, such as self-healing, self-adjusting, self-heating, and energy-storing capabilities.

This Special Issue welcomes contributions from researchers interested in advanced concrete technology, encompassing diverse topics ranging from their fundamental definition to practical applications. Research areas may include (but are not limited to): smart concrete, piezoresistive cementitious composites, self-healing cementitious composites, electrically conductive cementitious composites, energy-storing cementitious composites, 3D printable concrete technology, smart actuators, numerical simulation, and resilient infrastructure.

Contributions on the design of sustainable and resilient infrastructure are also welcome.

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Guest Editors



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Special Issue



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