Special Issue

Advances in Serviceability Analysis of Concrete Structures

Message from the Guest Editor

Reinforced concrete is a unique material in two aspects. The first regards the extent of its application: concrete is the second human consumable after water. The second aspect of uniqueness is a highly complex mechanical behavior: concrete cracks, creeps, and shrinks. The interaction of concrete and reinforcement, known as the effect of tension stiffening, is extremely intricate. These effects have a key influence on the serviceability behavior of concrete structures. This Special Issue will compile recent developments in various aspects of the serviceability analysis of concrete structures. Analytical, numerical, and experimental investigations are welcome. The topics of interest include but are not limited to:

- Deformations
- Cracking
- Shrinkage
- Creep
- Tension stiffening
- The range of concrete and reinforcement types
- Pre-stressed concrete
- Various loading cases

Full papers, communications, and reviews are welcome.

Guest Editor

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Deadline for manuscript submissions

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Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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