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Reinforced Concrete Structures for Durability and Corrosion Resistance

Guest Editor:

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Deadline for manuscript
submissions:
closed (10 March 2023)

Message from the Guest Editor

Dear Colleagues,

The durability of reinforced concrete structures is one of the key tasks of civil engineers. The combination of mild steel rebars with alkaline concrete allows for the construction in nearly every environment thinkable. By adjusting the concrete mixture, replacing the “classical” rebar with non-metallic reinforcements or even developing new building techniques, reinforced concrete has evolved significantly. In addition to its load bearing capacity, the durability of materials needs to be taken into consideration. Thus, the aging effects of materials must be understood through reliable testing. As a result, the modeling of aging phenomena is a useful tool in the design of materials for reinforced concrete structures.

Original papers are solicited on the evaluation of building materials and materials modeling to support the durability of reinforced concrete structures in the following areas:

- New materials; New material testing procedures; New material modeling approaches;
- New building techniques furthering durability;
- New findings on corrosion of rebars and pre-stressed steels.

Full papers, communications and reviews are all welcome.



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Message from the Editor-in-Chief

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