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Advanced High-Performance and Ultrahigh Performance Concrete Materials and Structures

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Deadline for manuscript
submissions:

closed (31 March 2022)

Message from the Guest Editor

Dear Colleagues,

This Special Issue will highlight recent value-added contributions to the state-of-the-art and state of practice on UHPC. We seek high-quality research manuscripts addressing key UHPC aspects, including the following topics:

- measurement and control of the rheology and early-age behavior of UHPC;
- specialty materials and novel mixture proportioning;
- nanostructure and advanced characterization of UHPC;
- sustainability and novel binders with low-CO₂ footprint;
- mechanical performance under extreme loading, impact, blast, and fire;
- durability in severe exposure environments;
- life cycle assessment;
- design principles and design guidance; applications of UHPC in bridges and buildings, precast concrete, repair and rehabilitation, seismic retrofit, field-cast connections, nuclear fuel and spent fuel storage and containment, etc.;
- new predictive models for the behavior of UHPC, and other novel research that pushes the envelope of innovation and application of UHPC.



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Prof. Dr. Moncef L. Nehdi
Guest Editor

Special Issue



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