



Analysis and Design for Sustainable and Durable Structural Concrete in Infrastructures

Guest Editors:

Dr. Ibrahim G. Shaaban

School of Computing and Engineering, University of West London, London W5 5RF, UK

Prof. Dr. Joe Rizzuto

School of Computing and Engineering, University of West London, London W5 5RF, UK

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Message from the Guest Editors

Dear Colleagues,

Structural reinforced concrete is commonly used in infrastructure such as concrete pavements, bridges, abutments, etc. The addition of polyvinyl alcohol (PVA) fibres, polypropylene (PP) fibres, or hybrid fibres to concrete would improve the structural behaviour and sustainability of the infrastructure. PVA fibres may contribute to the self-healing of concrete, and both PVA and PP would improve the structural behaviour and ductility of reinforced concrete beams and slabs.

Experimental work may be carried out on fibrous reinforced concrete slabs and beams to assess the different types and quantity of fibres on their structural behaviour and durability.

Empirical design and rational equations based on international design codes may be developed to predict the deflection of slabs and the shear behaviour of beams, taking into consideration the effect of hybrid fibres for predicting deflection/shear strength in a simple and accurate way.





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Editor-in-Chief

Prof. Dr. Takayoshi Kobayashi

Advanced Ultrafast Laser
Research Center, The University
of Electro-Communications, 1-5-
1, Chofugaoka, Chofu, Tokyo
182-8585, Japan

Message from the Editor-in-Chief

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Applied Sciences
MDPI, St. Alban-Anlage 66
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