

Special Issue on
The Effect of Coastal Environment on the Degradation of Reinforced Concrete Structures

CALL FOR PAPERS

Structures located in coastal areas frequently suffer from corrosion phenomena. Corrosion is the destruction of a material by reaction with its environment and it constitutes one of the basic factors of degradation of reinforced concrete structures. The presence of coastal environment, which is rich in chloride ions, is considered as one of the main external factors inducing damage on reinforced concrete structures, since it affects the passivity of steel and provokes premature initiation of corrosion.

Given the severity of the coastal environmental consequences on the structural integrity of reinforced concrete structures, a recent example of which is the collapse of the Morandi Bridge in Genoa, it is of outmost importance to upgrade scientific research in this specific area.

The aim of this special issue is to present state-of-the-art research trends that highlight the advancement in understanding the corrosion behavior of structural materials, which would form an important link between research done in areas of corrosion and material science and real structures.

We kindly invite members of the materials and corrosion communities to submit original research and review article to this special issue.

Potential topics include but are not limited to the following:

- ▶ Metal analysis and corrosion characterization
- ▶ Structures exposed to coastal environment
- ▶ Corrosion control systems for degradation or damage
- ▶ New approaches for metal protection
- ▶ Development of repair techniques and materials
- ▶ Durability of concrete and reinforced concrete in coastal areas
- ▶ Concrete degradation phenomena

Authors can submit their manuscripts through the Manuscript Tracking System at <https://mts.hindawi.com/submit/journals/ace/ecercb/>.

Papers are published upon acceptance, regardless of the Special Issue publication date.

Lead Guest Editor

Charis Apostolopoulos, University of Patras, Patras, Greece
charrisa@upatras.gr

Guest Editors

Stefania Imperatore, University of Rome, Rome, Italy
stefania.imperatore@unicusano.it

Zila Rinaldi, University of Rome, Rome, Italy
rinaldi@ing.uniroma2.it

Walter Salvatore, University of Pisa, Pisa, Italy
walter@ing.unipi.it

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