Editorial

This issue of the IBRACON Structures and Materials Journal (Volume 11 Number 4, August 2018) brings twelve articles on relevant topics related to concrete. The issue starts with a study on the conformity of structural concrete blocks used in masonry construction in Brazil. The second article presents a numerical analysis of the mechanical behavior of structural masonry panels submitted to horizontal and vertical stresses. The effects of unilateral suspension on the cable-stayed curved deck are the topic for the third article. The fourth article presents an adaptation of an incremental algorithm, developed by Bažant and Prasannan, to account for creep in a finite element commercial software, according to the CEB-FIP Model Code 1990. Numerical models are described in the fifth article to implement the analytical formulations prescribed by ABNT NBR 8800:2008 for lateral-distortional buckling of continuous steel and concrete composite beams. The objective of the sixth article is to evaluate the influence of partial interaction in the effective width of composite beams formed by a concrete slab connected to a steel beam with a deformable connection. An investigation of the correlation between compressive tests and sclerometry tests is the objective of the seventh article. The eighth article presents an experimental study of reinforced concrete beams strengthened for bending by reinforced grout layer and connectors. The ninth article reports an investigation on the influence of the beam-column connections stiffness on the structural behavior of reinforced concrete buildings. The tenth article presents an experimental analysis of the spalling phenomenon in precast reinforced concrete columns exposed to high temperatures. The eleventh article aims at the thermo-structural performance of steel and steel-concrete composite columns on fire. The last article addresses the influence of crusher type in the shape of fine aggregate grains.

We acknowledge authors and reviewers for their contributions to this issue.

The Editors