

Editorial

## Volume 2: ...and SGAMR Goes!

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The year 2018 starts with a great confirmation for SGAMR!

The journal has been selected to host the extended version of some selected papers presented during the 6<sup>th</sup> International Workshop on Design in Civil and Environmental Engineering (DCEE2017), held at the University of Cagliari (Italy) during November 2017. A summary of selected papers from highly ranked, international scientists can be found in (Bedon *et al.*, 2018a). Among the submitted contributors, the covered topics are various and equally important for the science and knowledge development and include an insight on innovative reinforcement techniques for masonry walls (Akhoundi *et al.*, 2018) the design of a multifunctional hybrid steel-glass structure (Froli and Laccone, 2018); the application of diagnostic surveying to existing buildings (Concu *et al.*, 2018) the nonlinear behaviour of RC culverts on elastic soil (Baraldi *et al.*, 2018). The application of infrared thermography approaches for the characterization of painted masonry vaults in historical buildings is proposed by (Casapulla *et al.*, 2018). Valdés *et al.* (2018) focus on the characterization of recycled thermoplastic timber and its efficient mechanical use in buildings. Zucca *et al.* (2018) discuss about the definition/scheduling of the best timing and execution activities for a new mixed structure building in Milano. Deligia *et al.* (2018), finally, presents the final outcomes of the “Didactic Laboratory of Theory and Design of Structures”, from the Bachelor Civil Engineering students of the University of Cagliari.

For the 2017 edition, as usual, it is thus clear that DCEE2017 continued successfully to pursue its primary objective of exploring what design means in the field of Civil and Environmental Engineering and discussing interdisciplinary design strategies/innovations/approaches in co-operation with Architecture, Urban Planning, Topography experts...and more! A great success for SGAMR then, given that the previous editions of the international DCEE event have been held with success in Rome (2016), Taiwan (2015), Lyngby (2014), Worcester (2013) and Dajeon (2011).

Besides, parallel submissions to SGAMR are from independent submissions that wanted to share their outcomes with the international research community.

(dos Santos *et al.*, 2018) present an innovative isolation system for efficient seismic applications, based on the efficient use of Shape-Memory Alloys (SMA).

Aversa *et al.* (2018) talk about Bulk Metal Glasses (BMGs). The paper aims at presenting some original studies on the melt flow, melting and rheology.

Vedrtnam (2018) focuses on the flexural performance of laminated glass members and proves the efficiency of novel treatment methods to improve the mechanical parameters (especially the material resistance) of ordinary glass. Also (Hána *et al.*, 2018) investigate the bending and structural response of laminated glass members with different interlayers. Original four point bending experiments are presented for both PVB or EVA laminated elements, that are notoriously responsible of the actual shear coupling for the glass layers.

Besides, the high variability in the tensile resistance of glass still represents one of the major issues for optimized design of glass structures. In this regard, (Kinsella *et al.*, 2018) focus on the available modeling approaches for the fracture of glass and in particular on the standard statistical distributions.

Talking further about glass, but at the assembly level, two additional contributions are included in this Volume. Both of them are somehow related to the novel concepts of adaptivity and movable glass structures. Bedon *et al.* (2018b) discuss the current challenges for the so-called “adaptive” structural glass facades, while (Galuppi, 2018) presents a transformable glass greenhouse made of curved glass.

Last but not least, the Volume is completed by three additional research papers related to specific fields of research. Figuli *et al.* (2018) focus on critical infrastructure elements and their protection.

Kamenická *et al.* (2018) presents original comparative calculations related to timber load bearing members under fire. The charring rate prediction is explored, based on selected methods. Hussein *et al.* (2018), finally, discuss about the preparation of porous silicon (P-type) and the thermal diffusivity measurement.

As usual, a special thanks to all the authors and reviewers! Enjoy this volume!

The Editor in Chief and the Associate Editors.

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