Design Creativity in Architecture and Engineering

Message from the Guest Editor

The objective of this Special Issue is to explore how creativity can be characterised and supported throughout design activity in architectural and engineering domains related to construction and built environments. This includes the embodiment of creativity in design outcomes such as buildings, theoretical models and processes for creative thinking, experimental studies on creative behaviour, the consolidation of creative cultures and more. We are interested not only in studies focussing on the early stages of the design process characterised by the generation of concepts and ideas, but also on more advanced stages of the process concerned with the creative practices required for the development of solutions.

As such, we welcome studies that encompass aspects of architectural and/or engineering design, and investigations where disciplines have interacted to develop novel solutions in the design or construction of buildings. We welcome original contributions describing new research, case studies, methods or state-of-the-art discussion on creativity, including—but not limited to—the following topics and themes: Tools, processes and methods for creative design; Cultural, organisational and social dimensions in creativity; Cognitive and psychological factors and conditions in creativity; Knowledge management and information support for creativity; Advanced visualisation (augmented, virtual, extended and mixed reality) and CAD to support creative working; Collaborative design and creativity; Bio-inspired design creativity; Creativity in design education, including the design studio.