

Creativity in Architecture

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Message from the Guest Editor

This SI will be devoted to the search for architectural designs that are distinguished by their quality and originality, and built to become points of reference. There will be a focus on the relationship between designer and computational creativity, understood as the use of a computer to generate results that could be considered creative if produced solely by humans.

A designer's creativity is related to cognitive processes such as perception, conceptual thinking, remembering and reflective self-criticism. A designer's visual thinking about familiar objects evolves and transforms them into something new and different, related to a sought-after new artifact. Designers may create mental images in their minds during the design process; however, the vast majority of them present these images in an external form. Thus, creative visual design aided by the computer is the dialogue between the designer and the artifact being created that is supported by computational creativity represented, for example, by multi-agent methodology, neural networks.....

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Special Issue

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Message from the Editor-in-Chief

Current urban environments are home to multi-modal transit systems, extensive energy grids, a building stock, and integrated services. Sprawling neighborhoods are composed of buildings that accommodate living and working quarters. However, it is expected that the cities and communities of the future will face complex and enormous challenges, including maintenance, interconnectivity, resilience, energy efficiency, and sustainability issues, to name but a few. A smart city uses advanced technologies and a digital infrastructure to improve the outcomes in every aspect of a city's operations. A smart building optimizes the experience of occupants, staff, and management by using a modern and connected environment. Innovations in technology that can bring dramatic improvements to design, planning, and policy are critical in developing the cities and buildings of the future.

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