Special Issue

BioCognitive Architectural Design

Message from the Guest Editors

We are pleased to announce the Special Issue "*BioCognitive Architectural Design*" in the journal *Buildings*. This issue introduces BioCognitive Architectural Design (BCAD) as a new interdisciplinary framework that integrates biological and cognitive insights with architectural practice. BCAD emphasizes how environments shape cognitive and behavioral outcomes, focusing on wayfinding, decision making, social interaction, and adaptation to human needs. This Special Issue invites empirical studies, theoretical contributions, and practical innovations that explore BCAD in diverse settings such as healthcare, workplaces, public spaces, and extreme environments like space stations and polar research stations. Submissions may include the following:

- Research examining spatial cognition and behavior in architectural contexts.
- Design tools and methodologies translating scientific insights into practice.
- Critical reflections on the application of BCAD to improve health, productivity, or organizational outcomes.
- Case studies demonstrating BCAD principles in real-world settings.

Guest Editors

Dr. Michal Gath-Morad
Prof. Dr. Koen Steemers
Cleo Valentine

Deadline for manuscript submissions

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About the Journal

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.

Editor-in-Chief

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Author Benefits

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JCR - Q2 (Construction and Building Technology) / CiteScore - Q1 (Architecture)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 15.1 days after submission; acceptance to publication is undertaken in 2.9 days (median values for papers published in this journal in the second half of 2025).