

Special Issue

Architecture, Spatial Planning, and Interdisciplinarity for Increased Urban Climate Resilience and Biodiversity: Dealing and Designing with Energy, Water, and Ecosystems

Message from the Guest Editors

The galloping urbanisation threatens to contribute to both the drivers of climate change and to the exposed environments, including—among others—flooding, heat waves, and heat islands. Far from reassuring narratives, the very liveability of cities is at stake if no urgent action is taken. Local and regional climate impacts can be associated with buildings and with urban systems, where action is also possible at the level of adaptation. Therefore, a call is here made for advances in interdisciplinary dialogue among hard, applied, and social sciences towards increased, adequate knowledge in climate studies and in its direct and indirect effects onto the spheres of urban and regional planning and design, architectural technology, building design, landscape architecture, engineering physics, agro-ecology, construction sciences, urban botany, and more. Moving away from techno-centered approaches, a focus is proposed on key natural resources (starting from energy and water and up to the potential of nature-based solutions) and their crucial roles in all ecosystems, including the massively anthropised and depleted ones.

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