

Special Issue

Intelligent Knowledge-Based Models for Sustainable Spatial Planning and Engineering

Message from the Guest Editors

The objective of this Special Issue is to investigate qualitative-quantitative approaches, methods and models aimed at analysing and structuring spatial knowledge for the sustainable management of decision-making processes, strategies and implementation related to spatial planning and engineering. In this context, knowledge plays a delicate and essential role. Yet it shows elicitive, analytical and managerial difficulties mainly because of its multi-source, multi-agent, multi-scale, co-creative and co-designed nature, expression of the complex world that produces it—also being conscious of what we don't know in the moment of the analysis, as the last events have demonstrated. In our acting sustainably and planning for a renewed sustainable approach to our lives, cities, and environment in general, models and tools need to take in account interaction features and issues. Among them, the relation between natural objects/artifacts in dealing with complex environmental systems; space and time interaction in dealing with the making of a city or of a design object; the relation among cognition, natural and/or formal language in urban systems.

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