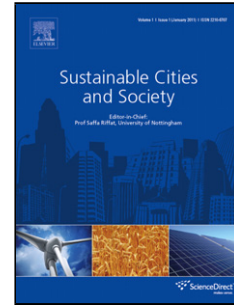


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Spatio-temporal *promenades* as representations of urban atmospheres

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Abstract:

An atmosphere is the synthesis for an individual at a given moment of the multiple thermal, visual, acoustical and olfactory perceptions suggested by a physical environment. An urban atmosphere therefore depends on the physical qualities of the built environment and the movement of the urbanite. Urban atmospheres can be represented in time and space through the concept of a *promenade*. The objective of this approach is to increase knowledge about the perception of pedestrians in an urban environment and their representation. In the context of climate change and urban heat island challenges, urban atmospheres represented dynamically through the field of view of pedestrians may assist in the discussion of the built environment parameters relevant to city planners, building professionals and citizens. This paper presents the visual and thermal environmental parameters gathered at specific points of an urban promenade. Qualitative and quantitative tools measure thermal and luminous atmospheres at pedestrian level. Results are graphically presented according to their temporality and spatiality. The innovative aspect of the research stems from its spatio-temporal representations of the visual and non-visual (thermal) physical qualities of urban spaces through photographs and their quantitative value to better investigate urban microclimates at the pedestrian and physical surface scales.

Keyword:

Urban Atmosphere

Representation

Promenade

Pedestrian

Urban Heat

Survey

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