

# An Experimental Methodology for Urban Morphology Analysis

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**Abstract.** The paper presents results of a research conducted in 2015 and 2016 at Lodz University of Technology. It proposes a purpose and context fit approach towards the automation of urban data generation based on GIS tools and New Urbanism typologies. First, background studies of methods applied in urban morphology analysis are revealed. Form-Based Code planning, and subsequently Transect-Based Code are taken into account. Then, selected examples from literature are described and discussed. Finally, the research study is presented and the outcomes compared with more traditional methodology.

**Keywords:** GIS · Urban morphology · Spatial analysis · Decision support systems · Urban design · Data analytics · Modelling and simulation