

The Use of Network Theory in Heritage Cities

Authors : J. L. Oliver, T. Agryzkov, L. Tortosa, J. Vicent, J. Santacruz

Abstract : This paper aims to demonstrate how the use of Network Theory can be applied to a very interesting and complex urban situation: The parts of a city which may have some patrimonial value, but because of their lack of relevant architectural elements, they are not considered to be historic in a conventional sense. In this paper, we use the suburb of La Villaflora in the city of Quito, Ecuador as our case study. We first propose a system of indicators as a tool to characterize and quantify the historic value of a geographic area. Then, we apply these indicators to the suburb of La Villaflora and use Network Theory to understand and propose actions.

Keywords : graphs, mathematics, networks, urban studies

Conference Title : ICTPSA 2017 : International Conference on Town Planning and Science of Architecture

Conference Location : Singapore, Singapore

Conference Dates : January 08-09, 2017