Abstract

Perception and expectation of citizens is an important factor in urban settlement, planning and management. Hence, there is a need of a participatory citizen centric planning of urban
settlement based on spatial data. These perception and expectation may be represented in
terms of emotions. Determining Urban Emotions is an approach which can be used to map
different types of emotions associated with urbanization. In the recent years, some new
methods have been presented for the area of urban and spatial planning that resulted in a
fundamental change of the issues and understanding of urban planning. Geographical
information system acts as a key factor for analyzing urban emotions from various types of data.
This paper presents the unsupervised learning approach for determining urban emotions using
K-Means algorithm.

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2013.  

Index Terms

Computer Science

Information Sciences

Keywords

Urban Planning  Spatial Planning  Smart City  Urban Emotions  K-means Algorithm