MAPPING OF BUILT-UP AREAS DENSITY FROM SATELLITE IMAGES BY MORPHOLOGICAL GRANULOMETRIES

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Technical Commission VII Symposium 2010

KEY WORDS: Mapping, Mathematics, Analysis, Classification, Image

ABSTRACT:

The overall objective of this work is to provide maps based on the spatial organization of built-up areas and to achieve the comparative spatial analysis of built-up areas on east of Algiers in 1985 and 1996. Landsat TM images from both dates are processed here in order to characterize spatial and temporal change in built-up areas. Contextual supervised classification method is used for built-up areas extraction. Built-up density mapping is provided by local granulometric analysis, based on binary mathematical morphology. This method enables the classification of entities according to their granulometric descriptors generated by opening granulometries.

TOPIC: Remote sensing applications
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