

技术方法

城区Radarsat图像变化检测研究——以成都市区为例

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摘要:

以成都市区Radarsat图像为数据源, 基于雷达图像服从的分布, 对城区变化存在的平滑转变和阶越转变2种类型, 运用指定

的数学算子和最大似然规律进行图像变化检测。通过和实地数据对比, 得到了比较理想的检测效果。

关键词: 雷达图像;变化检测;平滑转变;阶越转变

THE DETECTION OF RADARSAT IMAGE VARIATION IN THE URBAN AREA: TAKE CHENGDU CITY AS AN EXAMPLE

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Abstract:

With the RADARSAT radar image as the data source, the authors carried out the variation detection study

in Chengdu area. By choosing proper distribution and utilizing maximum likelihood regularity, the image variation

in the urban area was investigated. On the basis of the detection of RADARSAT data variation, the urban area

variation was divided into two types, namely smooth transition and abrupt change, which were assigned respectively

to homoplasmic area and alloplasmic area. These two types were detected separately by algorithm. Practice shows

that the result is fairly satisfactory.

Keywords: Radar image Change detection Smooth transition Abrupt change

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