



航空学报 » 2002, Vol. 23 » Issue (1) :82-84 DOI:

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应用单张像片解析法实现测绘图像实时定位

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REAL-TIME LOCATION DETERMINATION OF MAPPING IMAGE USING SINGLE PHOTO ANALYTIC METHOD

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摘要

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摘要 针对某大地测绘系统,根据空中探测器实际位置和姿态确定测绘图像的 6个外方位元素,结合摄像机的 3个内方位元素和选中点在图像上的位置,应用单张像片解析法,可以求得图像上任意点的地面坐标,最后经过变换给出该点的经纬度,解决了测绘图像实时定位问题。

关键词: 实时定位 坐标变换 测绘图像

Abstract: Aimed at a certain earth mapping system, six outside orientation elements are determined based on the actual location and attitude of the detector, and the ground coordinates of any point in mapping image are calculated using a single photo analytic method, based on three inside orientation elements of vidicon and location of the point in the image. Finally, the longitude and latitude of the point are given by exchange. The problem of real time location determination of mapping pictures is solved.

Keywords: real-time location determination coordinates exchange mapping image

Received 2000-12-07; published 2002-02-25

引用本文:

李雯;肖凯;刘文. 应用单张像片解析法实现测绘图像实时定位[J]. 航空学报, 2002, 23(1): 82-84.

LI Wen;XIAO Kai;LIU Wen. REAL-TIME LOCATION DETERMINATION OF MAPPING IMAGE USING SINGLE PHOTO ANALYTIC METHOD[J]. Acta Aeronautica et Astronautica Sinica, 2002, 23(1): 82-84.

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