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基于高程选择的SAR景象匹配系统基准图选

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Title: Reference Image Selection Roles for SAR Scene Matching Guidance Based on Elevation Selection

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关键词: SAR; 景象匹配; 基准图选择准则; 图像高程方差

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摘要: 景象匹配技术是飞行器自主精确制导的关键技术之一，随着武器系统日益精确化,影响匹配制导精度的基准图选择得到了广泛的关注。在合成孔径雷达侧视成像机理的基础上，讨论了高程起伏对SAR图像的影响，引入了图像高程方差的概念。同时，以图像匹配的准确性、稳定性、可靠性为考察量，讨论了各特征参数对匹配性能的影响。文中对真实星载SAR图像进行匹配试验的结果表明，此准则是有效的。

Abstract: The suitability of the reference image is very important in scene matching of the navigation of unmanned vehicle. In this paper, first, we analyze the influence of elevation on SAR images, and adopt the variance of elevation as a new verification parameter basing on the analysis. Second, systematically study the parameters which can affect the ability of scene matching, and choose image choice, image affirm and image test as the process of reference selection. Theory analysis and experiments show that

this method is practical.