应用光学 2010, 31(1) 51-54 DOI: ISSN: 1002-2082 CN: 61-1171/O4



光电信息获取与处理

# 改善光电稳瞄系统视觉效果的图像增强算法

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摘要：

为了改善光电稳瞄系统的视觉效果，使视频图像更加适合于人眼观察，并且有利于对目标的自动跟踪效果，将直方图均衡化处理与拉普拉斯边缘锐化处理相结合，在增强对比度的同时尽量保持边缘细节。仿真结果显示采用本文算法能够有效改善视频图像的视觉效果。

关键词： 图像增强 对比度增强 拉普拉斯 边缘锐化

# Image enhancement algorithm for improving the vision of electro-optical stabilized sight

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Abstract:

In order to improve the visual sense of electro-optical stabilized sight for the ease of operation and facilitate the automatic tracking of targets, histogram equalization algorithm was combined with Laplace edge sharpening algorithm to enhance image contrast and preserve image edge details. The simulation results indicate that the vision effect of video images is effectively improved by this algorithm.

Keywords: image enhancement contrast enhancement Laplace edge sharpening

收稿日期 修回日期 网络版发布日期

DOI:

基金项目:

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