

图形、图像、模式识别

## 基于边缘特征的单帧图像清晰度判定

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收稿日期 2008-6-12 修回日期 2008-9-8 网络版发布日期 2009-11-6 接受日期

**摘要** 自动调焦是保证目标跟踪系统实时获得清晰图像的重要技术, 而何时触发调焦又成为了其中的关键问题。在图像清晰时如果触发调焦, 初始的电机盲动会导致图像可能变得更模糊。提出了一种可单帧判断图像是否清晰的方法, 消除了图像在清晰情况下却触发调焦的误操作, 从而提高了跟踪的可靠性和精度。通过对多组实际图像序列的测试, 证明该方法合理可靠。

**关键词** [图像清晰度](#) [自动调焦](#) [单帧](#)

**分类号** [TP391](#)

## Single frame image definition based on edge character

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### Abstract

Auto-focus is a key technology in aim-tracking system, which assures of obtaining focus-image in real time. And when springing focus becomes a key question of it. If touch off focus system when image in focus, will result in out of focus. This dissertation puts forward a way on judging an image whether in focus by a single frame, and avoiding an error operation when the image in focus to spring focus. Thereby improve the reliability and the precision of tracking. By testing a series of images, prove that the method is reasonable and credibility.

**Key words** [image-definition](#) [auto-focus](#) [single frame](#)

DOI: 10.3778/j.issn.1002-8331.2009.30.059

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