学术探讨

# Canny算子在图像置乱程度评价中的应用

孙秋艳 雷仲魁 宁宣熙 宁安琪

南京航空航天大学信息科学与技术学院

摘要　　随着图像置乱技术的发展，出现了各种各样的置乱算法，为了更好地衡量这些算法对不同图像的置乱程度，本文利用canny算子的良好特性，在分析现有评价方法特点的基础上，提出了一种新的描述图像置乱程度的评价方法。试验表明该方法与人的主观评价相接近，且结果不受原图像影响。本文采用MATLAB作为研究工具。

关键词　　图像置乱　canny算子　骑士巡游变换　置乱度

分类号

# Application of canny operator in Image Scrambling Degree Evaluation

孙秋艳 QiuYan Sun

**Abstract**

  With the development of digital image scrambling techniques, there appeared a lot of scrambling methods. In order to measure the scrambling degree of these algorithms to different images better, this paper proposes a new method for accessing the image scrambling degree, which utilities the favorable performance of Canny operator by analyzing the existent assessments of image scrambling degree. Experiments show that the method correlates well with subjective assessment and its results are not affected by the original images. The paper uses MATLAB as the research tool.

**Key words**　Image scrambling　Canny operator　Knight-tour transform　Scrambling degree

DOI:

通讯作者　孙秋艳　sunqiuyan1234@163.com

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