

一种基于红外成像障碍物检测的改进Flood Filling算法

作者: 段晓娟 史浩山

单位: 西北工业大学电子信息学院

基金项目: 教育部博士点基金资助项目(20050699037)

摘要:

在对图像特征进行有效分割的基础上,提出了一种基于红外成像障碍物检测的改进Flood Filling算法,并首次将该算法应用到障碍物检测领域中。通过对模拟以及真实红外图像中目标的快速成功提取,不仅验证了该方法的有效性,同时实验结果也表明了其较之原始算法对时效性的提高。

关键词: 图像处理;障碍物检测; Flood Filling 算法;红外图像

An Improved Flood Filling Algorithm for Obstacle Detection of Infrared Images

Author's Name: DUAN Xiao-juan, SHI Hao-shan

Institution: School of Electronics & Information, Northwestern Polytechnical University

Abstract:

Based on the effective segment of image feature, this paper raised an efficient fast method to detect the possible obstacles by firstly applying Flood Filling algorithm into object detection domain. The successful extraction of the obstacles in both testing stimulant and real infrared images proved not only the validity and reliability of this novel method but also the enhancement of computing speed.

Keywords: image processing ;obstacle detection ;flood filling algorithm ;infrared image

投稿时间: 2008-08-11

[查看pdf文件](#)