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基于遗传算法的目标检测定位方法

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TWO TARGET DETECTION AND LOCALIZATION METHODS BASED ON GENETIC ALGORITHMS

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摘要

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摘要 将目标的检测定位归结为一类组合优化问题, 利用遗传算法的进化策略, 采用改进的遗传算法, 提出了2种基于遗传算法的目标检测定位方法: 基于遗传算法的相关匹配定位法和图象序列目标检测定位法。并给出了在可见光图象序列上的实验结果。

关键词: 目标检测定位 相关匹配 遗传算法

Abstract: The method of target detection and localization is a key technique for automatic target recognition and tracking system. The paper is directed towards the problem with reducing target detection and localization to a sort of combinatorial optimization problem. By using the evolution strategy of genetic algorithms and improving techniques on genetic algorithms, two methods of target detection and localization are presented. The experiments conducted on visible band image sequences are reported.

Keywords: target detection and localization correlation matching genetic algorithms

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