

论文与报告

基于二次曲线的立体视觉

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摘要

关键词 [立体视觉](#) [二次曲线](#) [匹配](#) [重建](#)

分类号

Quadric Curve Based Stereo Vision

Si Shaohua, Ma Songde

Abstract

We present a stereo-vision method based on quadratic curves. Used for computing the features of the points and for establishing the point-point correspondence between the left and the right image, we provide a closed form solution for the global matching criterion of two quadratic curves in two images and furthermore, a closed form solution for the global reconstruction of the conics in the scene. The algorithm can be implemented in real time. The proof of uniqueness and the results of experiments on the real image data are given in the paper.

Key words [Stereo vision](#) [quadric curve](#) [matching](#) [reconstruction](#)

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