Object Reconstruction and Prediction from Three Images

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Key words: Trilinearity equations, robust estimation, multi images tensor , image transfer.

ABSTRACT

This paper deals with the problem of a robust reconstruction the locations of a number of points in space from three different images using into consideration, the number of unknowns. It is assumed that the correspondences between the points in the different images are known. In this paper we will show that the number of unknown parameters is reduced to 15 unknowns instead of 27 unknowns which developed in the most trilinearity equations problem. It is also shown that a robust prediction of the corresponding point in the third image. We will present a method where no camera calibration is needed; making it possible to reconstruct the object up to projective transformation.

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