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MEASUREMENT OF OBJECT RECOGNITION BY USING NORMALIZED UNMATCHED POINTS

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ABSTRACT

The object (Ex: human face) is the premier biometric in the field of object recognition, not only because of its easy acquisition but also since it has been extensively studied and several good algorithms exist for face recognition. However, there are several challenges in object recognition like different, backgrounds and illumination conditions to name a few, because of which the task becomes difficult. In this paper, we propose a new powerful measure called Normalized Unmatched Points (NUP) to compare grey images and discriminate facial images. Fundamentally, NUP works by counting the number of unmatched pixels between two images after they have been suitably pre-processed. An efficient algorithm for the computation of the NUP measure is also presented in this thesis. It has been shown that the NUP measure performs better than other existing similar variants on most of the databases.

KEYWORDS: Object Recognization