

Fusion of LDA and PCA for Face Recognition

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Abstract. Although many approaches for face recognition have been proposed in the last years, none of them can overcome the main problem of this kind of biometrics: the huge variability of many environmental parameters (lighting, pose, scale). Hence, face recognition systems can achieve good results at the expense of robustness. In this work we describe a methodology for improving the robustness of a face recognition system based on the “fusion” of two well-known statistical representations of a face: PCA and LDA. Experimental results that confirm the benefits of fusing PCA and LDA are reported.