

OCCLUDED FACE RECOGNITION USING LOCALIZED SUBSPACE PROJECTION METHODS

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Occluded face recognition performances using four different localized subspace projection approaches are reported. The methods under investigation are: a) Non-Negative Matrix Factorization (NMF); b) Local NMF (LNMF); c) Independent Components Analysis (ICA); d) Neural Autoassociators (NA). The comparative analysis is conducted in terms of distance metric used and number of selected features on AR and Olivetti databases. Simulation results indicate superior performances of specific design solutions over classical holistic approaches based on Principal Components Analysis (PCA).