

TABLE I

PERFORMANCE COMPARISON WITH STATE-OF-THE-ART METHODS FROM THE LITERATURE.

Method	VER@0.01FAR
LRPCA Baseline [21]	0.08
ISV-GMM [20]	0.05
LBP-SIFT-WPCA-SILD [17]	0.09
PLDA-WPCA-LLR [1]	0.19
Eigen-PEP [18], [19]	0.26
PGFC (ours)	0.29

challenging handheld experiment) used overlapped with one of the protocols adopted in our experiments. We, therefore, provide comparative results with this experimental protocol for different state-of-the-art techniques from the literature in Table I. The reader is referred to [10] for a detailed description of the techniques included in the table.

Note that our PGFC technique ensures the best performance for this protocol with the VER@0.01FAR of 0.29.

IV. CONCLUSION

We have presented a novel technique for face recognition called Probabilistic Gabor-Fisher Classifier that combines Gabor features and a simplified version of Probabilistic Linear Discriminant Analysis. We assessed the technique on videos from the challenging PaSC database and demonstrated state-of-the-art performance.

As part of our future work we plan to improve on the presented method by including more information from the Gabor filter outputs and seeking alternatives to the down-sampling procedure.

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