Izlučivanje značajki gaborovim filterom

Tomislav Reicher Krešimir Antolić Igor Belša
Marko Ivanković Ivan Krišto Maja Legac
Tomislav Novak

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1 Uvod

Face representation based on Gabor features have attracted much attention and achieved great success in face recognition area for the advantages of the Gabor filters. However, Gabor features currently adopted by most systems are redundant and too high dimensional. In this paper, we propose a face recognition method using AdaBoosted Gabor features, which are not only low dimensional but also discriminant. The main contribution of the paper lies in two points: (1) AdaBoost is successfully applied to face recognition by introducing the intra-face and extra-face difference space in the Gabor feature space; (2) An appropriate re-sampling scheme is adopted to deal with the imbalance between the amount of the positive samples and that of the negative samples. By using the proposed method, only hundreds of Gabor features are selected. Experiments on FERET database has shown that these hundreds of Gabor features are enough to achieve good performance comparable to that of methods using the complete set of Gabor features.

Tekst je izvučen iz (Yang et al., 2004).

Ovo je na brzinu složeno... uskoro će biti lijepo ;D.

2 O literaturi

Literaturu izvlačite sa citeseerxa ili google schoolara jer vam oni odmah daju i bibtex članka koji samo kopirate u file *literatura.bib*.

Primjer citiranja: `\citep{Yang04facerecognition}`.

Literatura

Peng Yang, Shiguang Shan, Wen Gao, Stan Z. Li, and Dong Zhang. Face recognition using ada-boosted gabor features. In *in: Proceedings of the 16th International Conference on Face and Gesture Recognition*, pages 356–361, 2004.