Abstract

A robust feature extraction method in HSV space is proposed for face detection problem in skin toned images using biorthogonal wavelet detail coefficients. It is demonstrated that followed with neural network classifier, proposed method is robust under varying conditions.

References

- L. Feng, C. Y. Suen, Edge extraction of images by reconstruction using wavelet decomposition details at different resolution levels, International Journal of Pattern Recognition
and Artificial Intelligence, Vol. 14, No. 6, pp. 779-793.
- F Fritsch, S Lang, M Kleinehagenbrock, G A Fink and Sagerer "Improving Adaptive Skin Colour Segmentation by incorporating Results from Face Detection{"quote;, In Proceedings of the IEEE International workshop on Robot and Human Interactive Communication, Berlin, Germany, (September 2002), pp. 337-343.
- H. C. Vijaylakshmi, S. PatilKulakarni "Illumination Compensation to Segment True Skin and Non-skin Regions For Skin Tone Images{"quote; Springer Computational Intelligence and Information Technology, (2011), Pune Volume 250, 2011, pp 494-499.
Index Terms

Computer Science

Pattern Recognition

Keywords

Biorthogonal  Hsv Color Space