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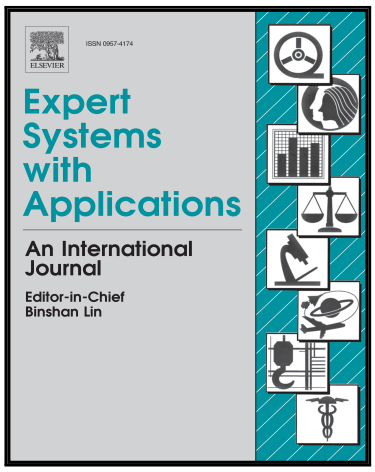

A Novel Geometric Feature Extraction Method for Ear Recognition

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Highlights

1. We proposed a novel geometric feature extraction approach for ear image.
2. Both the maximum and the minimum ear height lines are used to characterize the contour of outer helix.
3. Our method achieves recognition rate of 98.33 on the USTdB subset1 and of 99.6 on the IIT Delhi database.
4. Our geometric method can be combined with the appearance approaches to improve the recognition performance.

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