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Multi-gradient features and Elongated Quinary Pattern encoding for image-based facial expression recognition

S.A.M. Al-Sumaidaee, M.A.M. Abdullah, R.R.O. Al-Nima, S.S. Dlay, J.A. Chambers

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Highlights

- A novel texture extraction method for facial expression recognition is proposed.
- High performance is attained with both posed and spontaneous facial expression.
- Multi-gradient features for magnitude and angle components are derived.
- Multiple Classifier System based on the multi-class SVM is adopted.
- Comparison with the state-of-the-art showed the superiority of the method.

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