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Optimal feature selection for 3D facial expression recognition using coarse-tofine classification

Hamit SOYEL<sup>1</sup>, Hasan DEMİREL<sup>2</sup>



<sup>1</sup>Department of Computer Engineering, Cyprus International University, Nicosia-North Cyprus, Via Mersin 10, TURKEY

elektrik@tubitak.gov.tr

Scientific Journals
Home Page

e-mail: hsoyel@ciu.edu.tr

<sup>2</sup>Department of Electrical and Electronic
Engineering, Eastern Mediterranean
University,

Famagusota-North, Cyprus, via Mersin 10, TURKEY

Abstract: Automatic facial expression recognition for novel individuals from 3D face data is a challenging task in pattern analysis. This paper describes a feature selection process for pose-invariant 3D facial expression recognition. The process provides a lower dimensional subspace representation, which is optimized to improve the classification accuracy,