



AN INTELLIGENT AND AUTOMATIC FACE SHAPE PREDICTION SYSTEM FROM FINGERPRINTS

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ABSTRACT—This paper presents an intelligent system for generating face shapes from only fingerprints without knowing any information about faces. The proposed system based on artificial neural network has got a number of modules including two biometric data acquisition modules, two feature extraction modules, an artificial neural network module, a face re-construction module and a test & evaluation module. Experimental results have shown that the faces can be successfully generated from only fingerprints. Although the proposed system is an initial study, the performance of the system is very promising for the future developments.

Key Words: Intelligent systems, biometrics, artificial neural networks.