An approach to feature-based face recognition

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(Pink Haley)

AN APPROACH TO FEATURE-BASED FACE RECOGNITION

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No binding. Book Condition: New. This item is printed on demand. Original publisher: Adelphi, MD : Army Research Laboratory, 2000 OCLC Number: (OCoLC)227939919 Subject: Human face recognition (Computer science) Excerpt: . . . and left to right. A pixel match occurs if, in a 5- 5-pixel window cen-tered about the candidate-matching pixel, an isodensity line pixel occurs in the registered image. For similar faces, the matches achieved were long and contiguous. For dissimilar faces, the matches tended to be associated with short, fragmented lines. By combining the results of the pixel-by-pixel match with the nding that best matches are associated with long, contigu-ous line segments, Nakamura et al derived a relationship dening a best match. The strong points of this approach to face recognition are (1) it is algorith-mically simple, (2) it is computationally efcient, (3) because the binary line image strongly reects the underlying three-dimensional structure of the face, the information content of the image is potentially high, (4) be-cause a binary line image of a face is stored in memory, the amount of required computer storage is minimal, and (5) the authors claim that this procedure has high discrimination accuracy even for a face with glasses or a thin beard (stubble). The weak points are (1) the algorithm cannot cope with anything but a uniform background around the face (this is a prob-lem common to most face-recognition algorithms), (2) the algorithm has been tested for only minimal head tilting or panning and it appears that its performance could be quite sensitive to these effects, (3) all test images were obtained only under conditions of controlled lighting with registered pictures renewed every several months to account for changes in...

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