

ANALYSING THE FACIAL MORPHOLOGY WITH A THREE-DIMENSIONAL GEOMETRICAL FEATURES APPROACH

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ABSTRACT:

To obtain the best surgical results in orthognathic surgery, treatment planning and the evaluation of results should be performed. In these operations it is necessary to provide to the physicians powerful tools able to underline the behaviour of soft tissue. For this reason, considering the improvements provided by the use of 3D scanners, as photogrammetry, in the medical diagnosis this paper proposes a methodology for analysing the facial morphology working with geometrical features. The methodology has been tested over patients affected by malocclusion, in order to analyse the reliability and efficiency of the provided diagnostic results.

TOPIC: Image processing and pattern recognition

ALTERNATIVE TOPIC: Image processing and pattern recognition