

METHOD TO DEVELOP PSEUDO THREE-DIMENSIONAL DENTAL IMAGE FROM DENTAL PANORAMIC RADIOGRAPH

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Abstract

Although three-dimensional imaging can be a powerful tool for dentists to explain treatments to patients, obtaining of three-dimensional image of teeth in general dental clinics is difficult. This paper proposed a method to develop pseudo three-dimensional dental image from conventional dental panoramic radiograph and dental impression. The method estimates imaging parameters of given panoramic radiograph through comparison with dental cast, and re-projects the radiograph into three-dimensional space. The developed pseudo three-dimensional image gives clear impression of the patient's dental condition.

Keywords: dental panoramic radiograph, dental impression, three-dimensional image development