

ABSTRACT

In the human body there is a section that serves to chew and tear food that the teeth have a hard structure, resembling bone and implanted in the maxilla and mandible. In addition to functioning as penguyahan process, say, and the beauty of the teeth are also abnormalities of the teeth and oral cavity. In dentistry, the dentist is not only objectively examine only detection but they also use a more specific diagnosis of dental abnormalities using radiographs.

One of the abnormalities of the teeth is an inflammation of the dental pulp which is painful pulpitis. Examination of pulpitis can use quality detection gear manually by dentists while as the development of the tooth detection technology can be implemented through digital image processing.

Type is a descriptive study conducted with the aim of detecting periapical section on dental pulpitis with periapical provisional estimates. The stages will include: pre-processing, feature extraction, and classification. Texture characteristic extraction method and the colors used are Curvelet Transform by using the classification of LDA (Linear Discriminant Analysis) and RBF (Radial Basis function). This final project can have an accuracy rate of approximately 80 persen.

Keyword: periapical radiographs, pulpitis, Curvelet Transform, LDA, RBF