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Patent Search

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Abstract:

The System and Method to Detect Multiple Teeth Distortion using Artificial Intelligence (DMTD) helps the dentist to make use of the DMTD to detect and measure the cavity/infected tooth for Multiple Teeth Distortion using Artificial Intelligence automatically. The DMTD takes the radio-graphic image dataset as an input and trains th each radio-graphic image, some teeth have cavities or have an infection, that is depicted with pure white-coloured in the radio-graphic image. The DMTD has an AI-ba measurement scanner that detects the pure white-coloured cavity/infected tooth using image processing and measures the size of the tooth. Also, it measures the n tooth sizes. Then it transfers the collected data to the control unit. The AI-based tooth measurement scanner lid needs to be closed while processing. Then the contrc performs analytics using artificial intelligence and gives its possible recommendations to the dentist about to distortion of cavity/infected tooth as well as the distorti nearby/all the tooth size and position of the tooth. By using this DMTD, the dentist to make use of the DMTD to detect and measure the cavity/infected tooth for Mult Distortion using Artificial Intelligence automatically.

Complete Specification

Description:FIELD OF INVENTION

AI became a cornerstone of radiology with the introduction of a digital picture archiving and communication system that provided large amounts of imaging data, o great potential for AI training.

BACKGROUND OF INVENTION

Artificial intelligence (AI) is defined as the ability of a machine to mimic intelligent behavior to perform complex tasks, such as decision making, recognition of words objects, as well as problem solving. Deep learning systems are among the most promising systems in AI. The deep learning approach has been elaborated to impro performance of traditional artificial neural networks (ANNs) using complex architectures. Deep learning methods are characterized by multiple levels of representat the raw data are processed to yield classification or performance of detection tasks. In deep learning, multiple layers of algorithms are classified into conjunct and important hierarchies to provide meaningful data. These layers collect input data and provide output that undergoes gradual changes as the AI system learns new f based on the supplied data. ANNs are composed of thousands to millions of connected nodes or units. Links between the nodes or units are activated, and the acti spreads from one unit to another, with each link activation weighted with a numerical value that determines the strength of the link. ANNs should be trained using educational data sets in which the initial image data sets should be manually tagged by the algorithm to suit the ground truth.

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