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FIBER OPTIC DISPLACEMENT SENSOR SCANNING SYSTEM FOR IMAGING OF DENTAL CAVITY

▶ MORE INFORMATION

MEGA-TREND
- **Dental**
- **Healthcare**

TECHNOLOGY READINESS LEVEL (TRL)
- **TRL 4**

PATENT/ GRANTED NUMBER
- **PI 2015700071**

▶ TECHNOLOGY OVERVIEW

The present invention discloses a method for measuring dental cavity diameter by utilizing artificial intelligence technique and fiber optic displacement sensor. The method comprising steps of constructing a fiber optic displacement sensor, FODS scanning and imaging system; acquiring teeth image by using the FODS scanning and imaging system; performing cavity localization process by determining the exact location of the cavity in the teeth image; extracting the first and second features by performing

feature extraction process; performing fuzzy logic on the second feature; and performing classification process on the reflected signals by a single-layer perceptron, SLP network.

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