Abstract

Dental Biometrics has emerged as vital bio-metric information of human being on account of its stability and invariant nature and of course uniqueness. The presented work shows the dental unique feature set that may be used for claiming of the human personal identity using dental radiograph (x-ray graph). The complete jaw is divided into four parts: left and right upper jaws, left and right lower jaws. Unique feature set includes number of teeth in each portion, maximum and minimum size in each portion, area and perimeter of each tooth in each portion and information regarding missing teeth in any of the portion. Later on, a database of features along with person under scanner profile is maintained for retrieval purposes.

References

- Hong Chen, Student Member, IEEE, and Anil K. Jain, Fellow, IEEE, "Dental Biometrics: Alignment and Matching of Dental Radiographs," IEEE TRANSACTIONS ON PATTERN ANALYSIS AND MACHINE INTELLIGENCE, VOL. 27, NO. 8, AUGUST 2005
Aparecido Nilceu Marana1, Elizabeth B. Barboza2, João Paulo Papa3, Michael Hofer4 and Denise Tostes Oliveira5, "Dental Biometrics for Human Identification" www.intechopen.com

Shubhangi C. Dighe, Revati Shriram, "Dental Biometrics for Human Identification Based on Dental Work and Image Properties in Periapical Radiographs", Dept. Of Instrumentation and Control Cummins College of Engineering for Women, India


Amina Khatra, "DENTAL RADIOGRAPHS AS HUMAN BIOMETRIC IDENTIFIER: AN EIGEN VALUES/EIGEN VECTOR APPROACH", Cibtech Journal of Bio-Protocols ISSN: 2319–3840 (Online), 2013 Vol. 2 (3) September-December, pp. 6-9/Amina


Nourdin Al-sherif, Ayman Abaza, and Hany Ammar, "Dental Record Retrieval Based on Guided SIFT Descriptors", IICIT 2012

Index Terms

Computer Science
Applied Sciences

Keywords