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## Patent Search

Invention Title	HYBRID-BASED MEDICAL IMAGING TECHNIQUES FOR EARLY DIAGNOSIS AND PREVENTION OF CARDIOVASCULAR DISEASES
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**Abstract:**

Hybrid-based medical imaging techniques for early diagnosis and prevention of cardiovascular diseases is the proposed invention. the proposed invention focuses on diagnosis of cardiovascular diseases so that life of the patient can be extended. The invention also aims at achieving preventive steps for avoiding the occurrence of heart in heart patients.

**Complete Specification**

Description:[0001] Background description includes information that may be useful in understanding the present invention. It is not an admission that any of the information provided herein is prior art or relevant to the presently claimed invention, or that any publication specifically or implicitly referenced is prior art.

[0002] Cardiovascular disease (CVD) is any disease involving the heart or blood vessels. CVDs constitute a class of diseases that includes: coronary artery diseases (angina, heart attack), stroke, heart failure, hypertensive heart disease, rheumatic heart disease, cardiomyopathy, abnormal heart rhythms, congenital heart disease, valvular heart disease, carditis, aortic aneurysms, peripheral artery disease, thromboembolic disease, and venous thrombosis.

[0003] A number of different types of cardiovascular disease analysis systems that are known in the prior art. For example, the following patents are provided for supportive teachings and are all incorporated by reference.

[0004] Artificial intelligence in disease diagnosis: a systematic literature review, synthesizing framework and future research agenda:- Artificial intelligence can assist providers in a variety of patient care and intelligent health systems. Artificial intelligence techniques ranging from machine learning to deep learning are prevalent in healthcare for disease diagnosis, drug discovery, and patient risk identification. Numerous medical data sources are required to perfectly diagnose diseases using artificial intelligence techniques, such as ultrasound, magnetic resonance imaging, mammography, genomics, computed tomography scan, etc. Furthermore, artificial intelligence primarily enhanced the inpatient experience and sped up preparing patients to continue their rehabilitation at home. This article covers the comprehensive survey on artificial intelligence techniques to diagnose numerous diseases such as Alzheimer, cancer, diabetes, chronic heart disease, tuberculosis, stroke and cerebrovascular hypertension, skin, and liver disease. We conducted an extensive survey including the used medical imaging dataset and their feature extraction and classification pipeline for predictions. Preferred reporting items for systematic reviews and Meta-Analysis guidelines are used to select the articles published up to October 2020 on the W

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