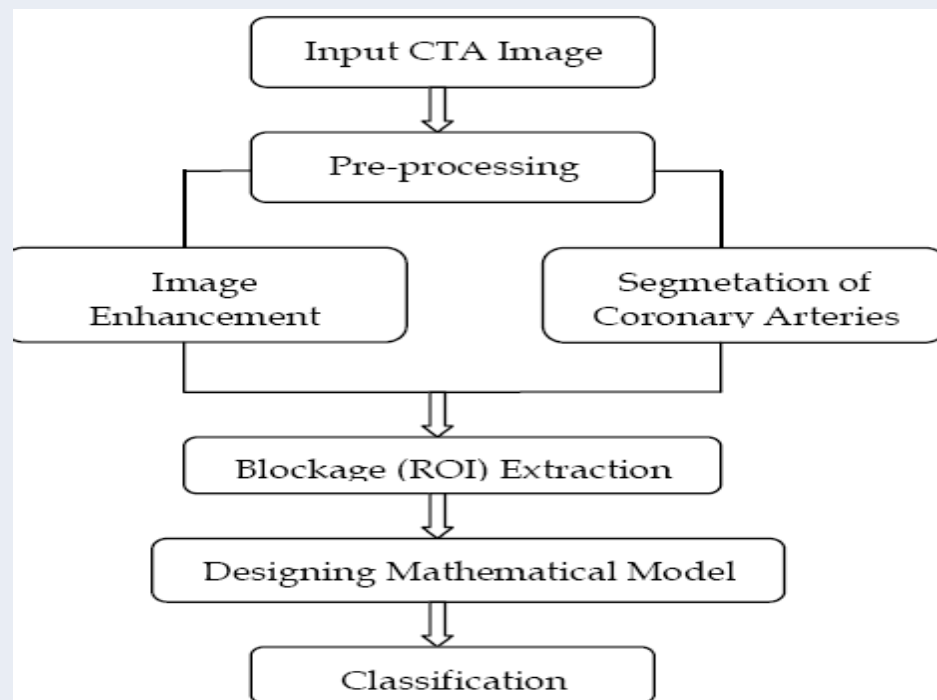


Department of Electronics and communication Engineering

PROJECT TITLE	DETECTION AND CLASSIFICATION OF CORONARY ARTERY DISEASE
STUDENT NAMES	S.M.APOORVA N.K.S DEVIBALA S.NIKITHA
SUPERVISOR	Mr.K.Sivakumar.M.E, Assistant Professor
OBJECTIVE	Detection and classification of CHD is very important and crucial in Health care industry. CHD is of the leading cause of death globally. So it is very essential to predict it at very initial stage.
ABSTRACT/IDEA	<p>Coronary artery disease is the leading cause of death in high, middle and low income countries. Importantly three quarters of Cardiovascular disease (CVD) deaths take place in low- and middle-income countries According to world health organization (WHO) Cardiovascular disease (CVD) are the number 1 cause of death globally: more people die annually from CVDs than from any other cause. An estimated 17.5 million people died from CVDs in 2012, representing 31% of all global deaths. Of these deaths, an estimated 7.4 million were due to coronary heart disease. In this project a novel tracking method for automatic detection and classification of the coronary artery in Computed tomography angiographic images was used, and it is based on probabilistic vessel tracking and fuzzy structure pattern inferring.</p>

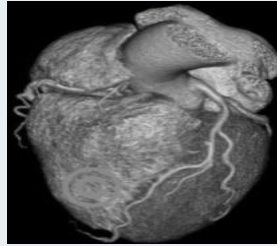
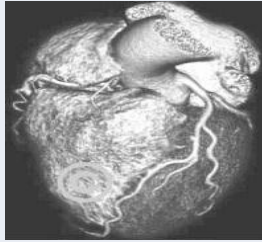
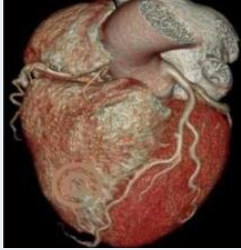
TECHNOLOGY USED	1. MATLAB Simulation Technology 2. Image Processing
WORKING STEPS	1. Segmentation 2 Preprocessing and tracking.
REQUIREMENTS	1.Web camera or any capture device 2.MATLAB 7.10(R2010a)

METHODOLOGY



BENIFITS	1.Evaluated a mathematical model for myocardial blood flow system. 2.Which includes healthy subject as well as patient subject's factors. Computerized simulations have been implemented on MATLAB.
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SCREEN SHOTS



Real CTA image is enhanced to grey level image and filters with noise