
Detect and classify deposits in arteries based on IVUS images

farzaneh hodhody abkenar*,alireza sahab,

Abstract: Intravenous ultrasound imaging (IVUS) is a type of imaging, a type of diagnostic imaging that provides information on heart-fed vessels. This method has problems, one of which is the analysis of the images obtained by this method of shading that calcium emits in images. These shadows are the result of a large collision of calcium with these calcium deposits, which creates areas of very little light intensity. In this thesis, we present an automated method for isolating and rebuilding the areas we read. To isolate the active canton method, we use the usual morphology of these areas in the IVUS images and then the reconstruction process by processing the intensity and intensity of the shadows in these areas. By using the usual morphology of the shadow regions, we make the segmentation very carefully, and this is also simple. Eventually, these shading shadows show very good information about the structure of the vein. **Keywords:** intravascular ultrasound imaging (IVUS), shadows, isolation, active contour technique.

Keywords : Keywords: intravascular ultrasound imaging (IVUS), shadows, isolation, active contour technique.

[Islamic Azad University, Rasht Branch - Thesis Database](#)
[دانشگاه آزاد اسلامی، واحد رشت - سامانه بانک اطلاعات پایان نامه ها](#)