

Conversion Of DICOM System Images To Common Standard Image Format Using Matlab

Mousa, WA; Shwehdi, MH; Abdul-Malek, MA

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King Fahd University of Petroleum & Minerals

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Summary

Digital Imaging and Communications in Medicine (DICOM) standard is an image archive system which allows itself to serve as an image manager that controls the acquisition, retrieval, and distributions of medical images within entire picture archiving and communication systems (PACS). The DICOM technology is suitable when sending images between different departments within hospitals or/and other hospitals, and consultants. However, some hospitals lack the DICOM system. This paper presents an easy and practical MATLAB program that is devised to view medical images stored in DICOM format and convert them to other common formats. Consequently, the images can be seen using personal computers, instead of using the DICOM system software. Thus, patients can have their x-rays, Computed Tomography (CT)'s, Magnetic Resonance Images (MRI)'s and other types of medical images in their computers. This also allows the images to be sent to physicians and consultants anywhere without worrying about the imaging viewing software they are using.

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