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Client-side Medical Image Colorization in a Collaborative Environment.

By: [Virag, Ioan](#); [Stoicu-Tivadar, Lacramioara](#); [Crisan-Vida, Mihaela](#)

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Abstract

The paper presents an application related to collaborative medicine using a browser based medical visualization system with focus on the medical image colorization process and the underlying open source web development technologies involved. Browser based systems allow physicians to share medical data with their remotely located counterparts or medical students, assisting them during patient diagnosis, treatment monitoring, surgery planning or for educational purposes. This approach brings forth the advantage of ubiquity. The system can be accessed from a any device, in order to process the images, assuring the independence towards having a specific proprietary operating system. The current work starts with processing of DICOM (Digital Imaging and Communications in Medicine) files and ends with the rendering of the resulting bitmap images on a HTML5 (fifth revision of the HyperText Markup Language) canvas element. The application improves the image visualization emphasizing different tissue densities.

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Categories / Classification

Research Areas: Psychology; Information Science & Library Science; Imaging Science & Photographic Technology; Radiology, Nuclear Medicine & Medical Imaging; Medical Informatics; Health Care Sciences & Services; Telecommunications (provided by Thomson Reuters)

MeSH Terms:

Heading	Qualifier
Cooperative Behavior	
Documentation	*methods
Image Enhancement	*methods
Image Interpretation, Computer-Assisted	methods
Information Storage and Retrieval	methods
Medical Record Linkage	methods
Radiology Information Systems	*organization & administration
Remote Consultation	*methods
	*organization & administration
Teleradiology	*methods
	organization & administration

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