

Dear Faculty, IGERT Fellows, IGERT Associates and Students,

You are cordially invited to attend a Seminar presented by Michael Oliveira.
Please plan to attend.

Michael Oliveira

IGERT Fellow
Bioengineering

Date: Friday, November 15, 2013

Location: Bourns A265

Time: 11:00am

MI-VIS: A 3D Visualization Application for Spatial Frequency Domain Imaging (SFDI) Data

Abstract:

The generation rates of imaging data from medical imaging technologies like Computed Tomography (CT) and Magnetic Resonance Imaging (MRI) are the highest they've ever been. These rates show no sign of slowing and are expected to increase along with advances in hardware and software technologies. A tremendous challenge for the next generation of biomedical imaging scientists and engineers will be to develop new methods of data mining and visualization to make sense of the plethora of imaging data currently being generated. In this talk, I will give an overview and demonstration of MI-VIS, a 3D visualization application for SFDI data, developed by Modulated Imaging Inc. I will start with a discussion of the design criteria and its influence on the selection of software technologies used in the application. Next, I will walk through the user interface of the Windows desktop prototype and explain its interactions with the core of the application. I will highlight the main features built into the first version of the application and discuss planned features for future releases. Finally, I will conclude with a demonstration of the application using SFDI data acquired by the OxImagerTM, the flagship product of Modulated Imaging Inc.

Attached is a reference paper.

Thank you,

