

SEMINAR



Speaker: Dr. K. Prahlad Rao

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Prahlad Rao has completed his bachelor's degree (B.E.) in electrical engineering from Gulbarga University, India, in 1988. He received his Master's and Doctoral degrees from IIT Chennai, India respectively in the years of 1998 and 2006 with Biomedical Engineering as specialization. Also he has undergone postdoctoral training in the University of Pittsburgh, PA, USA and the National University of Singapore (NUS), Singapore. In the past, he worked as a faculty member in engineering colleges in India. Currently, he is working as an Assistant Professor in the Electrical and Computer Engineering department at King Abdulaziz University, Jeddah. His research interests are biomedical imaging, biomedical instrumentation and signal processing.

Date: Monday, September 14, 2015

Time: 1:00 PM

Venue: Engineering Building, Third floor,
Dean of Engineering Meeting Room

Title

Optical Imaging and Spectroscopy for Biomedical Applications

Abstract

Optical Imaging and spectroscopy is a rapidly emerging research area with widespread applications in medical diagnosis and treatment. Although there are several advanced biomedical imaging modalities in use today to acquire anatomical, physiological, metabolic and functional information from the human body, optical imaging modalities are attracting the researchers and clinicians due to several advantages. They include low cost, portability, no radiation hazard, molecular sensitivity, and real-time non-invasive measurements. These modalities use light as a source and the spectral properties of photons to obtain images of organs and tissues. Biomedical applications, principle, technique, and challenges of few optical imaging modalities are discussed in this seminar.

ALL ARE CORDIALLY INVITED