

SEMINAR



Speaker: Dr. Muhammd Moinuddin

Department of Electrical and Computer Engineering,
King Abdulaziz University

Muhammad Moinuddin received the B.E. degree in electrical engineering from Nadirshaw Edulji Dinshaw (NED) University of Engineering and Technology, Karachi, Pakistan, in 1998 and the M.S. and Ph.D. degrees in electrical engineering from King Fahd University of Petroleum and Minerals (KFUPM), Dhahran, Saudi Arabia, in 2001 and 2006, respectively. He joined the ECE department at KAU in January 2013 as Assistant Professor. He is also a member of the signal and image processing group at the Center of Excellence in Intelligent Engineering Systems (CEIES). His research interests are in the area of signal processing, adaptive filtering, wireless communications and Neural Networks. Specifically, he is interested in the application of adaptive filtering in various fields of signal processing. He is the author of approximately 50 peer-reviewed journal and conference papers and one book chapter.

Date: Monday, February 16, 2015

Time: 1:00PM

Venue: Engineering Building, Second floor,
Room 24C28 (ECE Seminar Room)

Title

**Overview of Signal Processing Research Activities
at the Center of Excellence in Intelligent
Engineering Systems (CEIES)**

Abstract

The aim of this talk is to present an overview of current research activities in the field of signal processing at CEIES. This will include various adaptive algorithm designs and their applications in the fields of signal processing, communications, state estimation, control and bioinformatics. In particular, the employment of q-Calculus and Fractional Calculus in the design of various types of adaptive algorithms will be discussed. Another research area of discussion will be in the domain of neural networks and its various applications in signal processing and bioinformatics. Statistical characterization of indefinite quadratic forms and its applications in signal processing and communications will also be briefly highlighted.

ALL ARE CORDIALLY INVITED