

# SEMINAR



## **Speaker: Prof. Raj Mittra**

University of Central Florida, Florida, USA

Distinguished HiCi Adjunct Professor  
King Abdulaziz University

**Raj Mittra** is a Professor in the Department of Electrical & Computer Science of the University of Central Florida in Orlando, FL., where he is the Director of the Electromagnetic Communication Laboratory. Prior to joining the University of Central Florida, he worked at Penn State as a Professor in the Electrical and Computer Engineering from 1996 through June, 2015. He also worked as a Professor in the Electrical and Computer Engineering at the University of Illinois in Urbana Champaign from 1957 through 1996, when he moved to the Penn State University. Currently, he also holds the position of Hi-Ci Professor at King Abdulaziz University in Saudi Arabia. He is a Life Fellow of the IEEE, a Past-President of AP-S, and he has served as the Editor of the Transactions of the Antennas and Propagation Society. He won the Guggenheim Fellowship Award in 1965, the IEEE Centennial Medal in 1984, and the IEEE Millennium medal in 2000. Other honors include the IEEE/AP-S Distinguished Achievement Award in 2002, the Chen-To Tai Education Award in 2004 and the IEEE Electromagnetics Award in 2006, and the IEEE James H. Mulligan Award in 2011. Dr. Mittra is a Principal Scientist and President of RM Associates, a consulting company founded in 1980, which provides services to industrial and governmental organizations, both in the U.S. and abroad.

**Date:** Monday, April 18, 2016

**Time:** 1:00 PM

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

## **Title**

### **A LOOK AT SOME RECENT ADVANCES IN COMPUTATIONAL ELECTROMAGNETICS (CEM)**

## **Abstract**

In this talk we will present an informal review of some recent advances in Computational Electromagnetics that have been driven by our insatiable appetite to solve large, complex and multiscale problems arising in real-world applications, including bio- and nano-technologies, among others. We will briefly touch on the following topics:

- Domain decomposition approach—divide and conquer strategy for solving large problems in electromagnetic scattering, microwave circuits and sensor design for complex platforms.
- Theory of Characteristic Modes—an Algorithm for systematic technique for antenna placement on a given platform for optimal performance.
- Statistical electromagnetics

**ALL ARE CORDIALLY INVITED**