

Speakers Bio

Dr. Khaled Salama is an Assistant Professor of Electrical Engineering at KAUST. He has authored 68 papers and 6 patents. He works on developing devices, circuits, systems, and algorithms to enable inexpensive portable analytical platforms for a variety of industrial, environmental, and biomedical applications. He is currently the tutorials chair at the IEEE BioCircuits conference (BioCAS' 2008) and Association for Computing Machinery's Great Lakes VLSI (very-large-scale integration) Symposium (GLVLSI 2009).

Mr.M. Affan Zidan is a PhD candidate at the department of Electrical Engineering at KAUST. He obtained his MS from Cairo University, Egypt 2010 with highly ranked performance. He has authored and coauthored several papers. His research interests cover computer architecture, computer arithmetic, multi-core architectures, hardware based cryptographic systems, ray-tracing, and memristor based systems. He joined the sensor lab at KAUST in 2009.

Dr. Ayman Shabra is an Assistant Professor of Microelectronics Devices and Circuits. He obtained his PhD from MIT 2001. His research interest covers Analog and mixed-signal circuits and their application within a variety

of systems such as future wireless communication and power management including energy harvesting. **Dr. Shabra** joined Masdar Institute after almost a decade of industrial experience at Analog Devices and MediaTek, where he was engaged in the design of numerous products for the wireless handset market from concept to mass production.

Dr. Dr Norman Mariun is a Professor and was the Head Department of Electrical and Electronic Engineering (2001–2004), and now Deputy Dean of Research and Post Graduate Studies for the Faculty of Engineering, UPM. He got his PhD from University of Bradford, United Kingdom in 1997. His area of research interest is Electrical Power Engineering including Energy Efficiency and Renewable Energy, Laser applications and Power Electronics application in power system and drives. He has authored and co-authored more than 220 academic and professional papers and reports. He carried out various consulting projects (20) while attached with engineering consultant. He has received UPM's Excellent Service Award three times (1996, 1998 and 2004) and has been awarded the IEEE Asia Pacific Region Outstanding Volunteer Award 2003. He has been awarded the ITEX 2005 Silver Medal and Bronze Medal, ITEX 2006 Gold Medal, ITEX 2008 Malaysia Innovative Product Award and other distinguished awards.

WORKSHOP AND TALKS IN ELECTRONICS AND ENERGY

**Tuesday – Wednesday
December 27–28, 2011
Starting from 10 am
Building 59 room 2001/2002**



Organized by Department of Electrical Engineering at KFUPM

Workshop Objectives

The workshop objectives are to:

- promote excellence in research
- provide an opportunity to KFUPM faculty and students to update themselves with the current trends in electronics and power
- provide an opportunity to exchange ideas
- promote collaboration with researchers of high repute at national and international level.

Workshop Schedule

Day1: Tuesday 27 December 2011

Venue: Building 59 Room 2001

10:00–10:15: Opening (KFUPM)

10:15–11:45: *“Introduction to Memristors”*

Dr. Khaled Salamah, (KAUST)

11:45–13:15pm: Lunch and Duhur Prayer.

13:15–14:45: *“Memristors Applications”*

Dr. Khaled Salamah, (KAUST)

14:45– 15:15: Asr Prayer and Break.

15:15– 16:15: “Memristor Simulation”

Mr. M. Zidan, (KAUST)

16:15pm– 16:25pm: Closing Remarks
(KFUPM/KAUST)

Day2:Wednesday 28 December 2011

Venue: Building 59 Room 2002

12:30–13:30: *‘applications of continuous-time delta sigma modulation in low power systems’*

Dr. Ayman Shabra, Masdar Institute of Technology, Abu Dhabi, U.A.E.

13:30–14:30: *‘rotor fault condition monitoring techniques for induction machine’*

Dr. Norman Mariun , Universiti Putra Malaysia.



About EE department at KFUPM

The department has about 50 full-time faculty members in 6 specialized areas of research. The Groups in the department are:

- Energy Systems,
- Communications,
- Electronics,
- Control Systems,
- Electromagnetics,
- Digital Signal Processing.

Additionally, a pool of experienced engineers and technicians maintain more than 30 laboratories in the department.

The record of publications in the EE department approaches two ISI journal/faculty/year.

