

The Electrical Engineering Program

A brief Overview

Boon S. Ooi

Outline

- Program Overview
- Curriculum
- Research Highlights





| Teaching Area | Faculty | Position | Research Area |
|-----------------|-----------------------|---|--|
| Electro-Physics | Ian Foulds | Asst. Prof. of EE | MEMS & Microfluidics |
| | Muhammad Hussain | Asst. Prof. of EE | Microelectronics & nanotechnology |
| | Jurgen Kosel | Asst. Prof. of EE | MEMS & magnetic materials |
| | Khaled Salama | Asst. Prof. of EE | Sensors & Circuits |
| | Hakan Bagci | Asst. Prof. of EE | Computational electromagnetics |
| | Ghassan Jabbour | Prof. of MSE & EE | Solar cell, flexible electronics & photonics |
| | Andrea Fractalocchi | Asst. Prof. of EE & AMCS | Random medium & energy harvesting |
| | Boon Ooi | Professor of EE | Optoelectronics & lasers |
| | Atif Shamim | Asst. Prof. of EE | Microwave & circuits technology |
| | | | |
| Systems | Mohamed-Slim Alouini | Professor of EE | Communications & signal processing |
| | Christian Claudel | Asst. Prof. of EE & ME | Control and sensor systems |
| | Ganesh Sundaramoorthi | Asst. Prof. of EE & AMCS | Computer vision |
| | Basem Shihada | Asst. Prof. of CS (Affiliated member) | Wireless networks |
| | Meriem Laleg-Kirati | Asst. Prof. of AMCS (Affiliated member) | Control Systems |
| | Tareq AlNaffouri | Visiting Assoc. Prof. of EE | Wireless communications |



Electrical Engineering

Electro-Physics

Systems



Khaled Salama (PhD-Stanford)



Ian Foulds (PhD-Simon Fraser)



Boon Ooi (PhD-Glasgow)



Hakan Bagci (PhD-UIUC)



Slim Alouini (PhD-CALTEC)



Christian Claudel (PhD-UC Berkeley) Sundaramoorthi



Ganesh (PhD-Georgia Tech)



Jurgen Kosel (PhD-Vienna)



(PhD-UT Austin)



(PhD-Arizona)



Muhammad Hussain Ghassan Jabbour Andrea Fratalocchi (PhD-Roma Tre)



Basem Shihada (PhD-Waterloo)



Tareq Al Naffouri (PhD-Stanford)



Meriem Kirati (PhD-INRIA)



Atif Shamim (PhD-Carleton)



Statistics – Fall 2012

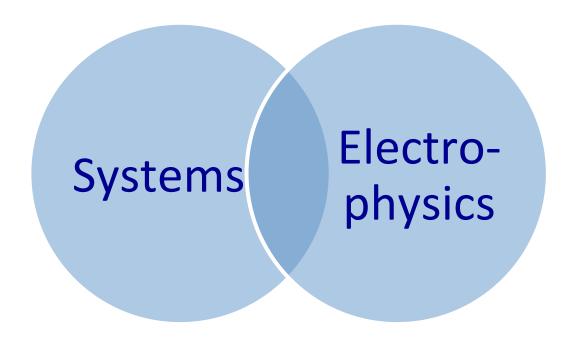
- Faculty members: **16** (faculty:12, affiliated members:2, visiting faculty:2)
- Postdocs & Scientists: 44
- PhD Students: **60** (incoming: 9)
- Master Students (Thesis): 8
- Master Students: **40** (class of 2012 = 21, class of 2013 = 19)



Curriculum



EE Tracks



Systems: Communication, Signal Processing, Networking and Control

Electro-physics: Solid-State Electronics, Circuits, Microsystems, Photonics and EM



Research

Research Thrusts in EE



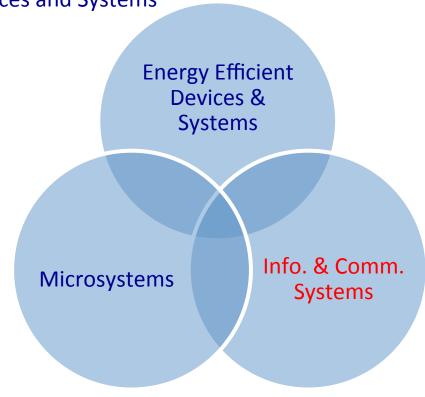
Cross-disciplinary nature of core competency in the EE Program

Electro-Physics Thrust:

- Energy Efficient Electronics and Photonics Devices and Systems
 - Flexible and printable devices
 - Solar and harvesting devices
 - Solid-state lighting
 - Energy efficient electronic/optoelectronic devices
 - Nanoelectronics
- Microsystems
 - Biosensors
 - Optical coherent tomography
 - Micro-anntena
 - Implantable devices

Systems Thrust:

- Information and communication Systems
 - Wireless sensor networks
 - Energy efficient communications
 - Cognitive radio
 - Vision systems





Information

Program Website: http://ee.kaust.edu.sa

Graduate Program Coordinator

Ms. Antonia Forshaw

Phone: +966 2 808 0564

Email: antonia.forshaw@kaust.edu.sa

EE Program Chair

Professor Boon S. Ooi

Phone: +966 5 4470 0036

Email: boon.ooi@kaust.edu.sa



Thanks!