Photonics: A key enabling technology of the future

Date: Tue. 5th Nov.
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Location: Building 59, Room 2016

Speaker:

Dr. Mohammed Zahed Khan
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Abstract:

Photonics is the field of generating, detecting, manipulating, and controlling the particles of light, or wave, known as "photons." This technology has emerged as a game-changer with remarkable improvements to our daily life, from smartphones to the internet of things, medical instruments to adaptive lighting, etc. In this talk, an overview of Photonics technology will be presented, focusing on its multitude of applications, economic impact, and prospects for electrical engineers graduating in this field. Moreover, an outline of our optoelectronics research lab's work will also be highlighted, along with some recent accomplishments.

Bio:

Dr. Mohammed Zahed Mustafa Khan received a Ph.D. degree in Electrical Engineering from King Abdullah University of Science and Technology (KAUST), Saudi Arabia, in 2013, and was SABIC postdoctoral research fellow in the Photonics Laboratory, KAUST, from 2014-2015. Since Sep 2015, he is an Assistant Professor in the Electrical Engineering Department at King Fahd University of Petroleum and Minerals (KFUPM), Saudi Arabia. He has contributed significantly in the area of novel broadband semiconductor lasers and superluminescent diodes. Presently, his research focus is on the development and applications of visible and near-infrared lasers for visible light communication and optical access networks, respectively. Dr. is a member of OSA and a senior member of IEEE.