



**INDUSTRY APPLICATIONS CHAPTER
THE INSTITUTE OF ELECTRICAL AND
ELECTRONICS ENGINEERS INC
KOLKATA SECTION**



IEEE Technical Lecture

(with the Department of Electrical Engineering, IEST Shibpur)

Topic	<i>Industrial Applications of Smart Phone based Sensing</i>
Speaker	Dr. Debangshu Dey, Assistant Professor, Electrical Engg. Dept., Jadavpur University
Date & Time	17th April, 2018 (Tuesday); 5 PM - 6 PM
Venue	Seminar Hall, Second Floor, Electrical Engineering Department, Indian Institute of Engineering Science and Technology (IEST), Shibpur, Howrah – 711103
Contact	Kaushik Mukherjee (kaushikk_mukh@rediffmail.com & Phone (Office): 26684561/62, ext. 594)

About the speaker:

Dr. Debangshu Dey received his B.E.E, M.E.E. and Ph.D. degrees from Jadavpur University, Kolkata, India in 2003, 2005 and 2009, respectively. Presently he is working as an Assistant Professor in the Electrical Engineering Department, Jadavpur University, Kolkata, India.

Dr. Dey has published more than 70 research papers in various International Journals and Conferences in the fields of his research including 18 papers in IEEE Transactions and co-authored one book from Springer-Verlag London. 2 patents have been granted to him, of which one is a US Patent. He is also the recipient of IEI Young Engineer Award in 2014 and two best paper awards. His areas of interest are applications of signal and image conditioning and processing tools in electrical and bio-medical systems, condition monitoring of electrical equipment, non-invasive testing, intelligent instrumentation and measurements related to condition assessment techniques.

Dr. Dey is the Treasurer IEEE Kolkata Section-Jan 2018-till date, Vice-Chair, IEEE Signal Processing Society, Kolkata 2017-till date, Treasurer of IEEE Power and Energy Chapter under IEEE Kolkata Section – 2011-2013, Secretary of IEEE Power and Energy Chapter 2014-2016, Member of Executive Committee, IEEE Kolkata Section, Member of Executive Committee, IEEE DEIS Kolkata Chapter, SAC Chair of IEEE Kolkata Section 2013-2017. He is a Member of ‘Academic Activities’ committee, under TEQIP phase II (2012-2014) in JU and also served as the Jt-Coordinator of Advanced Material Systems group under UPE II Scheme, JU (2012-till date).

Abstract of the talk:

The last decade has seen a prolific spread of mobile technologies. Such technologies include PDAs, handheld communicators, pocket music players, digital cameras, smart watches, GPS units, medical and factory devices, and above all mobile/smart phones.

Modern mobile phones or so called “Smart Phones” come with a variety of sensors that automate many of our daily tasks. However, we are not using all of those sensors efficiently, or in other way we are under-utilizing our phone’s ability for most of the cases. Hence, a whole new domain of industrial research and development has emerged on this topic in recent years.

The talk will highlight some of the applications related to smart phone based sensing ranging from Biomedical to Electric Power industries.