

# IEEE Kerala Section

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## 13<sup>th</sup> Talk of the Intersociety Weekly Webinar Series

on

### "Deep Learning for Disease Detection From Images of Biomedical Signals"

by

**Prof Celia Shahnaz**

Professor - Bangladesh University of Engineering and Technology,  
Former Women In Engineering Coordinator, IEEE Asia Pacific Region (Region 10)

on

**8 July 2020 Wednesday at 6.00 pm**

Jointly Organised by:

The Institution of Engineers (India) Kerala State Centre – IE(I)

Computer Society of India Trivandrum Chapter - CSI

Project Management Institute, Kerala Chapter - PMI

Internet Society, Trivandrum Chapter - ISOC

Vakkom Moulavi Foundation Trust, Trivandrum - VMFT

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**Please register on or before 7 July Tuesday at 9.00 pm.**

#### **Abstract**

To treat the diseases or injuries of the joints, bones, muscles, and spine in both adult and pediatric imaging the musculoskeletal radiographs bring a significant depth of expertise. Abnormality detection in the musculoskeletal study is backbreaking as more than 1.7 billion people are affected by musculoskeletal condition (BMJ, 2017). Hence if we want to create enough opportunity to treat a maximum number of patients, machine learning and deep learning can play a crucial role. Skin diseases are some of the most common human illnesses across geographies and time. The purpose of skin lesions classification method is to improve the quality and accuracy of existing skin diagnostic system by establishing superior feature extraction and classification of skin lesions from standard digital images. Deep learning techniques can be more effective in classifying digital images of multi-class skin lesions with improved performance parameters.

## **Prof Celia Shahnaz**

Prof Celia Shahnaz, SMIEEE, Fellow IEB, received Ph.D. degree from Concordia University, Canada and is currently a Professor, Department of EEE, BUET, Bangladesh since 2015.  
(<http://www.celiashahnaz.com>).

She has published more than 150 international journal/conference papers. She is a recipient of the Canadian Commonwealth Scholarship/Fellowship and Bangladesh Academy of Science Gold Medal for her contribution in Science and Technology. Recently, her papers have received best paper awards in Biomedical Engineering tracks at TENCON 2017 and at IEEE WIECON-ECE 2016, in Humanitarian Challenge track at R10 HTC 2017.

She was the mentor of 1st/2nd prize winning projects in IEEE IAS CMD Contests (Robotics, Humanitarian) in 2017-2019, USA. She was the supervisor of 4th/5th rank winning teams in SPCUP competitions, ICASSP 2020 (Spain)/2015 (Australia). She has around 20 years of experience (more than 18 years as an IEEE volunteer) of leading impactful Technical, Professional, Educational, Industrial, Women Empowerment and Humanitarian Technology Projects at national/international levels.

She is a Candidate for 2021-22 IEEE Region 10 Director-Elect/Delegate-Elect, Chair, IEEE Bangladesh Section, 2020 Member, IEEE New Initiative Committee.

2020 Chair, Women in SIGHT Working Group, 2020-22 Member, IEEE Signal Processing Society (SPS) Women in Signal Processing Committee, 2020 Member, IEEE WIE Senior Member Elevation Drive, 2019-2020 Member, IEEE WIE WePower Subcommittee, 2017-2020 IEEE PES Women in Power (WiP) IEEE Region 10 Regional representative.