



The Institution of Engineers (India)

Kerala State Centre

cordially invites you attend the Wednesday Webinar on

“Machine Learning for IoT Devices”

by

Prof. Mary Reena K E, PhD
LBSCE, Kasaragod



on

23rd June 2021 Wednesday at 6.00 pm

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Abstract

The [Internet of Things](#) (IoT) is a collection of devices or objects that are linked together using an Internet connection. It is also defined as the network of physical objects empowered with limited computation, storage, and communication capabilities. IoT is embedded with electronic devices (such as sensors and actuators), software, and network connectivity that enables these objects to collect, sometimes process, and exchange data. As the IoT has both real-time and historical data stored, it can provide effective decision-making instructions to devices, and control certain actions and aspects of when and how they function. Machine Learning (ML) and Deep Learning (DL) techniques, which are able to provide embedded intelligence in the IoT devices and networks. Data generated by the IoT devices is massive and therefore, traditional data collection, storage, and processing techniques may not work at this scale. To harness the value of the IoT-generated data, Machine Learning/Deep Learning is considered to be one of the most suitable computational paradigms. The use of ML imparts the ability to vary or automate the situation for a smart device in the desired manner. The recent advancements in the area of ML/DL would be highly advantageous in future IoT devices and networks.

Profile

Dr. Mary Reena K E

She obtained her B.Tech in Electronics and Communication Engineering from Mahatma Gandhi University in 1994 and M.Tech from NIT, Calicut in Instrumentation and Control in 2004, and PhD in Electrical Engineering from NIT, Calicut in 2018. She is working as Associate Professor in ECE at LBS College of Engineering, Kasaragod. She joined LBSCE in 1998 as Lecturer, promoted as Assistant Professor in 2006 and Associate Professor in 2007 onwards. She has several publications to her credit. Her interests include Wireless Networked Control Systems, Wireless Communications, Wireless Sensor Networks, Machine Learning, and IoT. She served as a reviewer for several International journals including IEEE Systems Journal. She is a Life Member of ISTE & a member of IEEE.