A Five day Online Faculty Development Program
On
"Challenges in Computer Vision using Deep Learning & IoT Protocols"
(Hands on - Contiki, Tensorflow)
(20th – 24th July, 2020)

Organized by
Department of Electronics and Communications Engineering

G. Narayanamma Institute of Technology & Science (for Women)
(Autonomous)
Accredited by NBA & NAAC,
Approved by AICTE, New Delhi & Affiliated to JNTUH
ISO 9001:2015 Certified
Shaikpet, Hyderabad, TS.

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Convener:
Dr. B. Venkateshulu, Professor & HoD, ECE

Coordinator:
Dr. Renuka Devi S M, Professor, ECE

Organizing Committee:
Y. Rakesh Kumar, Assistant Professor, ECE
B. Sreekanth Reddy, Assistant Professor, ECE
P. Madhuri, Assistant Professor, ECE
G. Madhavi, Assistant Professor, ECE
M. Bhavana, Assistant Professor, ECE

Registration Link:
https://tinyurl.com/y8ln62rp
Last date to register is 19th July, 2020

Registration Fee: Free

- ◆ e-Certificates will be provided on attending all the sessions and qualifying the quiz of FDP.
- ◆ Limited registrations on first come first serve basis.
- ◆ Target audience: Faculty / Research Scholars / PG Students.
- ◆ Meeting link will be provided to registered participants in WhatsApp group.

Schedule: (Daily 10 AM to 12.30 PM)
Day 1: Basic Areas of CV: Model Fitting, Motion Detection & Tracking, and Object Detection

Day 2: IoT: Introduction, IoT Architecture, Protocol Stack of IoT, Challenges of IoT

Day 3: Communications Technologies of IoT- 6LowPAN, Zigbee, BLE.
Hands on-Protocol Stack of IoT, IoT Security.

Day 4: Deep Learning in CV: Object Detection by R-CNN, YOLO, Generative Models: GANs, VAEs & Applications.

Day 5: Hands on- Basics of OpenCV, Tensor Flow with Keras, YOLO – for Plant Disease Detection, Building CNN Model using TF, Object Classification, PCD

(Timings for Day 5: FN: 10:00 AM to 12:30 PM & AN: 2:00 PM to 4:00 PM)

Resource Persons:

Day 1 & 4: **Dr. Chakravarthy Bhagvati,** Professor & Dean, SCIS, UoH

Day 2 & 3: **Dr. E Suresh Babu,** Asst. Prof. CSE Dept. NITW

Day 5: *From Industry*
M. Surya Tej, ML Engineer, SmartBridge
Kedar C, Graphics Hardware Engineer, Intel Technologies India Pvt. Ltd.
D Umarani, Engineer, SoCtronics Pvt Ltd.