





**Date:** 7 - 9 December 2023

(Thursday -Saturday)

# **Register Now**

https://forms.gle/RApd6muMZ7PTYTQeA



### **Organised By:**

Indian Institute of InformationTechnology (IIIT)

Sri City, AP, India - 517646

and

Ahmedabad University, Gujarat, India



### **Hosted By:**

Indian Institute of Information Technology (IIIT)
Sri City, AP, India - 517646



#### For more info visit our Website:

http://ieee-itss-2-wheeler-mobility.com/

(Event - 3)

## IEEE ITSS Winter School on Computing & IoT Technologies for Mobility in 2-Wheelers and Electric 2-Wheelers







### **About the Event**

Embrace the Opportunity to be part of Winter School on Computing and IoT.

Detailed talks on state-of-the-art Information and Communication Technology (ICT) based solutions to promote two-wheeler safety in developing countries (especially R10).

- 1. Demonstrating technical features
- 2. Identifying research challenges and
- 3. Bringing in social awareness about the importance in society.

Limited opportunity: Intended audience are

- Bright UG students
- PhD and PG researchers
- Industry professionals
- young faculties

Don't miss this opportunity to enhance your skills and expertise



## **Event - Schedule**

## **Topics of Winter School**

> Day-1: (2 pm - 8 pm)

#### **Introduction to 2-wheeler Mobility**

- Road Safety
- Technical Challenges
- Safe Driving in India, South
   Asia/Less-Disciplined Traffic Roads
- ICT and IoT-based advancements
- Quality and Cost-effective Solution
- > Day-2: (9 am 6 pm)

#### **Computing and IoT Technologies**

- Connectivity and Communication 2V,V21 and V2X Communication
- IoT integration for Sensor Monitoring-Navigation and Route Optimization
- Image Processing and Computer Vision-based Solutions
- Data Analytics for Vehicular Safety and Semi-Autonomous Driving in 2-wheeler
- AI/ML for Semi-Autonomous 2-wheelers
- Ride-Sharing and Mobility Services
- · Path Planning and Mobility Services
- Integration with Multi-Modal Traffic

Day-3: (9 am - 1 pm)

### **Technologies for Electric Two-Wheelers**

- Introduction(Types, range, anxiety, cost, why today, challenges and barriers, etc.
- Fast Charging and Battery Management
   Systems
- Electric Vehicles and Renewable Energy Integration
- Wireless Charging Technologies
- Multi-Sensor Fusion and Integration
- Application extension to Drones (UAV), AUV, etc.

# Registration Fee: 500/- only

Food and Accomodation will be provided

**Contact** 

Email: stas@iiits.in

**Student Co-ordinators:** 

Vidyasagar - 7337471142 Jahnavi - 8639719415



# **Speakers**



Dr. Selvajothi- IIIT design andManufacturing Kancheepuram



Mr. Mohan SatyaranjanEntrepreneur, ConnectedSystems



Mr. Giridhar Joshi- Entrepreneur, ConnectedSystems



Mr. Ashutosh Upadhyay
- Liger Mobility



Dr. Ramesh Singh- Analysis and Design of Electric Vehicles



Dr. Jaswanth NidamanuriWoxsen University



**Dr. Jayant Kumar** - Tokyo, Japan



**Dr. Naveenkumar Marati**- Hitachi Energy



Mr. Aftab M. Hussain- IIIT Hyderabad



Mr. John AR- Entuple E-MobilityPrivate Limited



Mr. Adrustavantha RPower Electronics,Electric Vehicles



Mr. Anbumani Subramanian



**Event Organisers** 



Dr Hrishikesh Venkataraman
- IIIT Sri City



**Dr Maryam Kaveshgar**- Ahmedabad University



Prof. Mehul S RavalAhmedabad University