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

Date: 7 - 9 December 2023

(Thursday -Saturday)

Register Now

https://forms.gle/RApd6muMZ7PTYTQeA

Deadline : 29th October 2023

Registration Guidelines

https://drive.google.com/file/d/1yNqos_gxazqk18e DRf5W1j7vK7-6YrDQ/view?usp=drivesdk

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)

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 for all. Travel support will be available for a limited number of needy candidates

Contact
Email : stas@iiits.in

Student Co-ordinators:

**Vidyasagar - 7337471142
Jahnavi - 8639719415**

Speakers

Dr. Selvajothi
- *IIIT design and Manufacturing Kancheepuram*

Mr. Mohan Satyaranjan
- *Entrepreneur, Connected Systems*

Mr. Giridhar Joshi
- *Entrepreneur, Connected Systems*

Dr. Mazad Zaveri
- *PhD, Portland state University*

Dr. Ramesh Singh
- *Analysis and Design of Electric Vehicles*

Dr. Jaswanth Nidamanuri
- *Woxsen University*

Dr. Jayant Kumar
- *Tokyo, Japan*

Mr. Anbumani Subramanian
- *Intel*

Dr. Deepak Gangadharan
- *IIIT Hyderabad*

Mr. GopalaKrishnan
- *Isuzu, Sri City*

Dr. Sreeja S R
- *IIIT Sri City*

Dr. Divyabramham K
- *IIIT Sri City*

Event Organisers

Dr Hrishikesh Venkataraman
- *IIIT Sri City*

Dr Maryam Kaveshgar
- *Ahmedabad University*

Prof. Mehul S Raval
- *Ahmedabad University*