High-end Workshop on Applications of Information & Communication Technology on Transportation Engineering and Logistics

(Under the KARYSHALA Scheme –A SERB initiative)

Funded by

Science and Engineering Research Board (SERB), Department of Science and Technology, Government of India under Accelerate Vigyan Scheme

Organised by

Department of Civil Engineering & Department of Computer Science & Engineering

MAULANA AZAD NATIONAL INSTITUTE OF TECHNOLOGY BHOPAL (MANIT)

July 14-20, 2022

About MANIT Bhopal

Maulana Azad National Institute of Technology (MANIT), Bhopal, formerly known as Maulana Azad College of Technology (MACT), Bhopal, was established in the year 1960 and subsequently upgraded to National Institute of Technology (NIT) in 2002. The institute is located in the heart of Bhopal City (the capital of Madhya Pradesh). Bhopal is well known worldwide as the city of lakes. It is well connected to various parts of the country by road, rail and air. The Institute is located at a distance of about 8 km from Bhopal railway station and 20 km from Raja Bhoj Airport. MANIT looks forward to becoming a global centre for technical and professional knowledge. The mission of the institute is to produce technical professionals abreast with competence, logical mind set, moral and ethical values and inner strength synchronous with the futuristic requirement of global business so as to strengthen the national economy

Overview

Advances in Information and Communication Technologies (ICT) in areas such as hardware, software, and communications have created new opportunities for developing a sustainable, Intelligent Transportation System (ITS). The integration of ICT with the transportation infrastructure will enable a better, safer traveling experience and migration to Intelligent Transportation Systems which focus on four fundamental principles: sustainability, integration, safety, and responsiveness. The key objective of the seven-day workshop is to introduce students to the importance of intelligent information and communication technologies in order to provide services for transportation systems, traffic data collection, transportation logistics and pavement geotechnics. After completion of this course, participants may be able to identify and apply ICT in their specific Transportation Engineering related problems and data collection.

Key features

- ❑ Over view of ICT & applications
- ❑ Role of automation in Traffic Control System
- ❑ Transportation logistics & Freight Modelling
- ❑ Hands-on-training for ML/AI techniques on Traffic Engineering and Pavement Geotechnics
- ❑ ITS applications in traffic data collection
- ❑ ICT application in Road Safety
- ❑ Computer applications in Transportation Planning

Who can attend

The course is open to motivated PG and Ph.D. level students, who are having a strong willingness to get excellence in their scientific and engineering research pursuits. **Only 25 participants will be selected as per the scheme norms.** Preference shall be given to students from Tier-II/Tier-III institutes as per the norms of Accelerate Vigyan "Karyshala" scheme.

How to Apply

Interested participants can apply through Google form available at the event
webpage:
https://forms.gle/kj1Djizoghj55wtK7

Applications will be shortlisted based on academic and research credentials. The shortlisted candidates will be intimated through email. **No registration fee, free accommodation and food during the workshop.** TA may be admissible as per the SERB norms and rules.

Tentative Resource Persons

- Dr. Udit Jain (VNIT Nagpur)
- Dr. Gourab Sil (IIT Indore)
- Dr. Ayan Mondal (IIT Indore)
- Dr. Sanjay Choudhary (IIM Indore)
- Dr. Naveen K. (Vigyan Jyothi Institute of Engineering &Technology, Hyderabad)
- Mr. Parag (Idox Transport, Idox India)
- Dr. Kishan Dharavat (MANIT Bhopal)
- Dr. S. K. Sarita (MANIT Bhopal)
- Dr. Pritikana Das (MANIT Bhopal)
- Dr. Bivina G. R. (MANIT Bhopal)
- Dr. Siddhartha Rokade (MANIT Bhopal)

Workshop Organisers

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Important Dates

Registration Opens
June 13, 2022
Last date for application
July 8, 2022
Display of shortlisted candidates
July 10, 2022
Workshop dates
July 14-20, 2022

Address For Correspondence

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