



Latest Developments of Multidisciplinary Research in the Transport Sector



The Centre for Intelligent Transport System (CITS) of the University of Moratuwa caters to the academic and industry gaps in transportation due to the absence of a platform for individual sector experts to work together for the betterment of transportation. The Centre has been successful in bringing together different academic disciplines of the university for collaborative research developments and industrial projects both with national and international partners addressing different aspects of transportation engineering.

Two major projects that have been successfully carried out by CITS are the "Multidisciplinary Transport Development Project" and "Sustainable & Efficient Electric Mobility System in Sri Lanka". Under these projects many inventions and outcomes have been achieved and sharing these findings with the relevant stakeholders is important for successful implementations. Some of the topics that will be covered in the proposed workshop are:

- Real-time vehicle identification & counting mechanism
- Vision based adaptive traffic signal controllers
- Sustainable and Efficient Electric Mobility System; e-three wheelers, e-motorcycles and e-bicycle to support last mile coverage
- Alternative Aggregate Solutions for Highway Pavement Material based on construction waste
- Multimodal transport data analytics platform
- Active road signs
- Open road tolling mobile application
- V2X simulation platform and Autonomous vehicle controlling algorithms and communication protocols
- Integrated IoT-enabled Platform for monitoring, collecting and analyzing Traffic related environmental Information
- Softwares developed for different transportation related applications in CITS

Speakers

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Target audience

Key stakeholders expected to participate include: Ministry of Highways, Ministry of Transport, Ministry of Environment, National Transport Commission, Road Development Authority, Sri Lanka Railway, Sri Lanka Transport Board, Colombo Municipal Council and other interested Local Authorities, Sri Lanka Police, Insee Cement, Rajarata Tiles Company, Codegen, MAS, Leo Burnett, University Academics and Researchers.

Two major projects that have been successfully carried out by CITS are the "Multidisciplinary Transport Development Project" which is a World Bank funded Sri Lankan government operation - AHEAD (Accelerating Higher Education Expansion and Development) and "Sustainable & Efficient Electric Mobility System in Sri Lanka" funded by The Global Environment Facility (GEF) and in collaboration with United Nations Environment Programme (UNEP) and Ministry of Environment, Sri Lanka.

Participation is
FREE



Online
WORKSHOP

WORKSHOP 5

8th International Multidisciplinary Engineering Research Conference

29th
July 2022

8.30 am -
4.30 pm