


# SAEINDIA INTERNATIONAL MOBILITY CONFERENCE 2022

Sustainable **Multi-Modal Mobility** Ecosystem



# CALL FOR PAPERS

12 - 14, OCTOBER 2022  
BENGALURU, INDIA



In continuation to its commitment to knowledge dissemination for Mobility Industry SAEINDIA, in collaboration with SAE International, is pleased to announce its **10th SAEINDIA International Mobility Conference (SIIMC 2022)**.

Mobility Industry had undergone a transformative change during the last decade due to the advent of Disruptive Technologies powered by emerging areas viz., **Connected, Autonomous, Shared and Electric**. Driving forward, the future will be driven towards Multimodal transportation – the integrated use of several different forms of transport will shape our travel not only between cities but even for transportation within the cities and societies. This will mean integration of diverse technologies like telecom, communication, remote sensing, machine learning etc for providing wholesome mobility for the society. Keeping these developments in mind the theme for SIIMC 2022 will be: **“Sustainable Multi-Modal Mobility Ecosystem”**



## Deadlines

- Submission of Abstracts – April 18, 2022
- Submission of Manuscripts – June 1, 2022
- Revised manuscript submission – July 1, 2022
- Copyright & approved Manuscript for publication – August 1, 2022

Final manuscript for publication deadline will not be extended

## Guidelines

For SAE Paper guidelines and templates, visit: <https://www.sae.org/participate/volunteer/author/event-paper-process>

Submission link for abstract/paper visit : <https://www.sae.org/servlets/techpapers/enterAbstractForPapers.do?method=formView&evtSchedGenNum=337255&prodGrpCd=ADMIN&evtName=SIIMC>

Abstract Submission instructions Visit : [www.saeindia.org](http://www.saeindia.org).

## WHY PUBLISH WITH SAE?

SAE event papers are published approximately a week prior to the event and are published on MOBILUS® and are indexed in Scopus, Engineering Village(Ei Compendex), and IET Inspec. Authors initially submit abstracts for consideration, which are evaluated by subject matter experts. If accepted, full manuscripts are required, based on the timeline provided. Approval to publish papers will be based on organizer-moderated peer review of a review-ready manuscript. Event papers are also considered for publication in the new conference proceedings journal: *SAE International Journal of Advances and Current Practices in Mobility*.

The SAE name is synonymous with high-quality information for mobility engineers worldwide. SAE International is the world's trusted thought leader for high-quality mobility engineering knowledge and is the leader in connecting and educating mobility professionals to enable safe, clean, and accessible mobility solutions. With a rich publishing history that spans more than a century and that covers topics essential to the automotive, aerospace, and commercial vehicle industries, SAE is synonymous with vital, authoritative resources for industry and government professionals and academia. SAE's publications stand the test of time, meaning that your paper will be valued in perpetuity.

Your work will receive technical peer review by subject matter experts to provide feedback and suggestions for improvements. Global reach: SAE's customers span the globe, and all content is available through SAE MOBILUS®, our robust online platform that features a comprehensive search tool, a personal dashboard to save searches and content, and more than 220,000 pieces of content. Your research will reach corporations, academia, and government across all segments of the automotive and aerospace/aviation industries.

# TOPICS

## AUTONOMOUS & CONNECTED VEHICLES



- Advanced Driver Assistance Systems
- IoT and Connected mobility.
- Fleet and transportation in connected vehicle
- Wireless communications and Vehicular Networking
- Data Analytics: Big Data & Applications in Connected, Autonomous, EV

## EMISSION, ENVIRONMENT & SUSTAINABILITY



- Emissions Controls
- Sustainability Issues in Automotive Supply chain
- Circular Economy and application in mobility
- Advances in HVAC Systems
- Alternate Bio fuels / Ethanol / E-Diesel feasibilities
- Sustainable materials / Resource efficiency

## MANUFACTURING, MATERIALS AND LIGHTWEIGHT SOLUTIONS



- Advanced Manufacturing Methods
- Advanced Materials
- Lightweight materials for EV
- Smart Manufacturing powered by 5G

## SIMULATION AND TESTING



- Virtual Prototyping & Testing
- Model Based Systems Engineering
- Simulation and Modeling (Mechanical, Electrical, Multiphysics)
- Smart Testing
- Data-driven Simulation Solutions
- Digital Twin

## STANDARDS, POLICIES & REGULATIONS



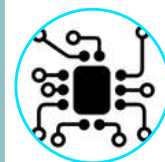
- Automotive Safety Standards for Active safety, Pre-crash and Collision avoidance system
- Greenhouse gas emission standards - Short and long term views
- Standards, Regulations & Policies for Hydrogen mobility
- Regulation and Policy challenges for UAV and Drones
- Regulatory Reforms for Urban Mass Transit System in India

## VEHICLE DYNAMICS, ACTIVE SAFETY & CONTROL



- NVH and Cabin Comfort
- Braking & Steering Systems
- Hydraulics & Electro-Hydraulics
- Vehicle Dynamics and Handling
- Safety & Crash

## VEHICLE ELECTRONICS & SOFTWARE



- Adaptive Electronics & Controls
- OBD and Prognostics
- Vehicle Communications & Architecture
- Vehicle Functional Safety

## URBAN AIR MOBILITY



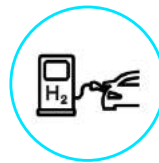
- UAV Technology Enablers (Electric vs Hybrid vs Fuel Cell)
- Drone Ecosystem growth & Opportunities in India
- Drone Applications (Agriculture, Medicine Delivery, Remote Areas)

## 5G TECHNOLOGY AND APPLICATIONS



- Applications for Automotive
- Technology in Smart Farming & Agriculture
- UAV and Drones
- Data Monetization - network splicing, AR, VR & connected vehicles

## HYDROGEN AND FUEL CELLS



- Hydrogen Urban Transport and Infrastructure
- Hydrogen based Fuel Cell vs Hydrogen fuel based IC Engines
- Application of Hydrogen for various modes of Transportation
- Engineering Safe and Reliable Hydrogen Fuel Cell based EV Powertrain
- Green Hydrogen - Path to series production and affordability

## URBAN MASS TRANSIT SYSTEM



- Integrated Mass Transit System
- Mass Urban Transportation in Indian Cities
- Monorail and Light Rail Urban Mass Transit Technologies
- Sustainability and innovation in Urban mass transit systems
- Last Mile Connectivity - Prospects and Challenges
- Urban Transport Planning

## INLAND WATER TRANSPORT



- Strengthening Inland Waterway Transport - EV and HFC Applications
- Waterways for freight transport - Opportunities and Challenges
- Decongesting railways and roadways

## HYBRID & ELECTRIC VEHICLES



- Integrated Electric Drivetrain Development: Recent Trends
- Thermal Management in EV
- Battery Swapping: Challenges & Opportunities
- Battery, Fuel Cell & Energy Storage Systems
- Alternative High-Performance Motors with Non-Rare Earth Materials
- SOX Models for Battery Performance, Prognostics & Lifecycle Prediction
- Alternate Battery Chemistries: Recent Advances

## HYPERLOOP APPLICATION



- Feasibility of Hyperloop technology in India
- Potential for Revolutionizing Freight
- Hyperloop Integration with Existing Transport system



## Delegate fee for Authors

**Author - Professional - Rs 3000 + 18% GST**

**Author - Academia - Rs 2000 + 18% GST  
(Faculty & Student)**

Bonafide certificate from institution required to avail Author fee under Academia Category for students.

It is mandatory for Authors to register as a delegate once the final paper is accepted. Minimum of 1 presenting author is required to register for the conference.

Co-authors are eligible to register as a delegate under the Author category.



**SAEINDIA** is India's leading resource for mobility technology. As an individual member-driven society of mobility practitioners, the ownership of SAEINDIA wrests with its members who are Individuals from the mobility community, which includes Engineers Executives from Industry, Government Officials, Academics and Students.

SAEINDIA is a strategic alliance partner of SAE International registered in India as an Indian nonprofit engineering and scientific society dedicated to the advancement of the mobility industry in India.



**SAE International** is a global association of more than 128,000 engineers and related technical experts in the aerospace, automotive and commercial-vehicle industries. Our core competencies are life-long learning and voluntary consensus standards development.

SAE International's charitable arm is the SAE Foundation, which supports many programs, including A World In Motion® and the Collegiate Design Series.

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