

7th SAENIS TTTMS Conference & Exhibition-2024

Theme: Innovation for Sustainable Mobility

Date: September 19-21, 2024

Venue: Best Western Resort Country Club, Gurugram, Delhi NCR, India

Day-wise Presentations Schedule (Tentative) at 7th SAENIS TTTMS Conference & Exhibition-2024

(Organizers reserve the right to change the presentation schedule and speakers without any prior notice)

S #	Paper Title	Paper #
Day 1 (September 19, 2024)		
1.	Active Management of Energy Source in A Fuel Cell Electric Vehicle Considering Air Pollutants	2024-28-0050
2.	Exploring the Impacts of Hydrogen Internal Combustion Engine (H ₂ ICE) Technology on Vehicle Thermal Systems (Radiator and Charge Air Cooler): A Review	2024-28-0051
3.	Analysis of Electric Vehicle Battery Safety Enhancement Techniques Using Python	2024-28-0052
4.	eVehicle Cooling System Approach for off-highway machines	2024-28-0053
5.	Effect Analysis of Material Properties on Thermo-Electric Generator Performance	2024-28-0054
6.	Minimization of Power Consumption in Fuel Cell Air Feed in System in Fuel Cell Electric Vehicle	2024-28-0056
7.	Modelling of Energy Scavenging from Rolling Tyres using Contact-Separation Mode Triboelectric Nano Generators for Self-Powered Electric Vehicles	2024-28-0058
8.	Liquid Cooled Battery Coupled (1D + 3D) Simulation Methodology for Thermal performance and Range Prediction of Electric Vehicle	2024-28-0059
9.	Method and System for Efficient Thermal Management in Electric Vehicles	2024-28-0060
10.	Air-induced noise prediction in Automotive HVAC using Computational Aeroacoustics	2024-28-0061
11.	Effect of Undercover Design on Vehicle Performance: An Investigation	2024-28-0062
12.	Transient Multi-Dimensional Conjugate Heat Transfer (CHT) Simulation of an Oil-Cooled Automotive Electric Motor Operated in a Drive Cycle	2024-28-0063
13.	Modelling of Vibrational Energy Collection for Self-Powered Electric Vehicles Using Soft-Contact Triboelectric Nanogenerator	2024-28-0065
14.	Design and Performance Analysis of a Brake Disc with Various Composites	2024-28-0066
15.	1D and 3D coupled thermal simulation of HVAC at Defrost Mode using Dual Stream Heat Exchanger Model	2024-28-0067
16.	Modelling Approach of Thermal Runaway Propagation and Gas Venting Process in Lithium-Ion Batteries: A Comprehensive Review Study	2024-28-0068
17.	HVAC Kinematic Noise Prediction by Using Multi-Body Simulation	2024-28-0070
18.	Study of Structural Noise of a Multi-Cylinder Diesel Engine	2024-28-0074
19.	Magnetic Refrigeration for Automotive application: A state-of-the-art Review	2024-28-0077
Day 2 (September 20, 2024)		
20.	EV Range Management by Optimal Control of HVAC using Reinforcement Learning	2024-28-0078
21.	Electro-thermal study of Permanent Magnet Synchronous Motor for Electric Vehicle Application	2024-28-0080

Organizing Committee,

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E-mail: saenis.ttms@saenis.org

22.	Numerical Investigation: Thermal Management of Lithium-Ion Batteries in Electric Vehicles Operating at High Discharge Rates	2024-28-0082
23.	Electric Vehicle Lithium-Ion Battery Thermal Management by Numerical Simulation with PCM and Fins over Shell	2024-28-0083
24.	Deep Learning Approach for Optimum Power Management Using IoT in EV Battery Management System	2024-28-0085
25.	Energy Saving by Deploying Adaptive Thermal Comfort in E-Mobile Heat Pump System	2024-28-0086
26.	Smart Efficient ECO AC for Small Commercial Electric Vehicle	2024-28-0087
27.	Artificial Intelligence in Electric Vehicle Battery Management System: A Techniques for Better Energy Storage	2024-28-0089
28.	The effect of thermal management on a LFP battery's life with different battery cooling methods and triggering temperatures for cooling activation for a Three-Wheeler	2024-28-0090
29.	CFD Modeling Of 18650 Lithium-Ion Cell to Predict Cell Gas Venting and Gas Phase Reactions During Thermal Runaway Event	2024-28-0091
30.	Optimization of Cooling Circuit for Electric Vehicle	2024-28-0092
31.	Performance Evaluation of Various Fractional Order Control Strategies on a PEM Fuel Cell	2024-28-0094
32.	Study to Establish an Evaluation Method for Selecting Suitable Packing Adhesives for A/C Ducts to Ensure Sustained Adhesiveness in Thermal and Condensation Conditions Over the Vehicle's Lifetime	2024-28-0096
33.	Simulating Cooling Module Fan Noise	2024-28-0097
34.	An Integrated Approach for Thermal Impact-Based Reliability Analysis of Electronic Components	2024-28-0098
35.	Accurate Urea consumption prediction in SCR system using CFD simulation	2024-28-0100
36.	A Study on Cabin Heat Load Reduction using Solar Reflective Glasses in Automotive Application	2024-28-0101
37.	An Investigation of Electric Vehicle Battery Safety Standards with Indian Perspective	2024-28-0102
38.	CFD Method for Predicting Thermal Cool-down Behavior of a School Bus Cabin	2024-28-0103
Day 3 (September 21, 2024)		
39.	Comparative analysis of automotive air purification systems and efficacy in Indian environment	2024-28-0104
40.	A case study of Engine Cooling system simulation and modelling for Air Conditioning application in a Medium Duty Truck	2024-28-0106
41.	Cabin Heating Modelling and Simulation for ICE and EVs through 1D CAE	2024-28-0107
42.	Design and Development of a Green Mobile Air Conditioning System for Electric Vehicles	2024-28-0108
43.	Evaluations to Identify the Necessity of Thermal Protector in Vane-Type Compressor of Automotive Air Conditioning System in a Hot Climate Country Like India	2024-28-0109
44.	Thermal Management of E-components in EV using Passive Cooling Technique (an Overmould Concept)	2024-28-0110
45.	A Novel Methodology to Assess Effectiveness of Passive Cabin Cooling Technology	2024-28-0111
46.	In-Vehicle Evaluation of a Rule-Based Look Ahead Controller for Mobile Air Conditioning: Impact On Energy Savings	2024-28-0112
47.	Characterization of HVAC noise and its dynamic interplay within the vehicle's environment	2024-28-0113
48.	Multiscale and Multidomain Digital Twins for Vehicle Thermal Management Applications	2024-28-0114

49.	A Methodology for Temperature Control During Blending Operation in An Automobile HVAC System Without Using Heater	2024-28-0115
50.	Numerical Analysis and Design Optimization of Cooling System for Construction Vehicles	2024-28-0116
51.	Advancements in Variable Refrigerant Flow Systems and Advanced Heat Exchangers for Battery Cooling in Electric Vehicles	24TTTMS-0136
52.	Optimizing Thermal System Performance of Electric Vehicles by Improving the Axial Fan Design Parameters	24TTTMS-0103
53.	Machine Learning-Based Prediction of Heat Transfer Performance in Louvered Fin Micro-Channel Heat Exchanger	24TTTMS-0104
54.	Performance of Hydrogen IC Engine in Comparison to CNG And Diesel Engines	24TTTMS-0077
55.	Smart Dual Secondary Loop Thermal Systems for Automotive Applications	24TTTMS-0098
56.	Correlation Improvement for Underhood Thermal Systems for Off-Highway Vehicles	24TTTMS-0083

