

Date	Time	Hall Name	Session Number	Session Title	Session Chair	Session Co-Chair	Keynote Session	Speaker Detail	Keynote Topic	Speaker Detail	Keynote Topic	
Oct 13, 2022	9:00-10:45	G82	Session 1	Simulation and Testing-1	Mr. Vigneshwaran, Mathworks							
			Session 2	Hybrid & EV-1	Mr. Anish Pragasam, Ansys							
			Keynote Session	Speaker Detail	Keynote Topic	Speaker Detail	Keynote Topic					
			No of Papers	Paper ID	Paper Title	Paper ID	Paper Title					
			Paper 1	138	Vehicle Model Factory - Validated Digital Twin from Road Measurement	315	The AVX Hydrogen Engine for CO2 neutral goods transportation					
			Paper 2	178	Material Characterization of Strain Rate Dependent Elastomers using Simplified Hyper-Elastic Material Model in LS-DYNA	327	Method to Improve DPF Regeneration performance for critical start-stop driving profiles.					
			Paper 3	320	Design Improvement of Engine Mounts in Commercial Vehicles	345	Is battery swapping a viable alternative to accelerate ev adoption in india?					
			Paper 4	423	Analysis of Hollow Hyper-elastic gasket filled with Air using Fluid-Fluid Approach	539	State of charge estimation of Li-Ion battery using Extended Kalman Filter and combined model.					
					CAE approach for radiator bush dynamic simulation		Optimal Control Strategy using Cloud for a Parallel Topology Based HEV to Minimize Energy Consumption					
Oct 13, 2022	9:00-10:45	G82	Session 3	Emission, Environment and Sustainability-1	Mr. M. P. Chaudhary, ANR							
			Session 4	Autonomous & Connected Vehicle-1	Mr. Ramachandran S, Infosys							
			Keynote Session	Speaker Detail	Keynote Topic	Speaker Detail	Keynote Topic					
			No of Papers	Paper ID	Paper Title	Paper ID	Paper Title					
			Paper 1	8	V2X Simulation of Gasoline Fuel Consumption in Constant Volume Combustion Chamber using Multi-Point Laser Ignition	29	Functional Safety Concept of "Minimum Risk Manoeuvre" in Conditional Driving Automation (Level 3) vehicles					
			Paper 2	10	Simulation study of post-combustion CO2 absorption using adsorbent	272	Design and Implementation of Adaptive Accident Avoidance System for Autonomous Vehicles					
			Paper 3	201	Experimental testing of spray characteristics of water-in-oil emulsion with single/double spray in LPEE	287	Validation Challenges of Safety of the Intended Functionality (ISITFI) risk(hazard)					
			Paper 4	481	Experimental study of heterogeneous high voltage plasma ignition with 3-Type Spark Plug in a constant volume combustion chamber	486	Engine Overheating Prediction using Machine learning with Gaussian Mixture Model (GMM)					
Oct 13, 2022	9:00-10:45	G82	Session 5	Manufacturing, Materials & Lightweight Solutions-1	Mr. Sanyal Neelamoni, ANR							
			Session 6	Vehicle Electronics & Software-1	Dr. S.P. Chaudhary, TCS							
			Keynote Session	Speaker Detail	Keynote Topic	Speaker Detail	Keynote Topic					
			No of Papers	Paper ID	Paper Title	Paper ID	Paper Title					
			Paper 1	23	Effect of Normalizing Heat Treatment Material and Mechanical Properties of High-Strength Steel Tube for Lift-ops of Commercial Vehicles							
			Paper 2	273	Role of Thermo-mechanical Treatment on Creep-Deformation Behavior of Reduced Activation Ferritic-Martensitic Steel							
			Paper 3	306	Study of Strain Rate Effects on Low Cycle Fatigue Behavior of Dual Phase (DP) Steel							
			Paper 4	308	Effect of relationship on change in phase morphology and mechanical behavior for AZ series cast automotive magnesium alloy compositions.							
Oct 13, 2022	14:00-15:45	G82	Session 7	Simulation and Testing-2	Mr. Vijayakrishnan, Mathworks							
			Session 8	Hybrid & EV-2	Mr. Vinod Venkateshwaran, Infosys							
			Keynote Session	Speaker Detail	Keynote Topic	Speaker Detail	Keynote Topic					
			No of Papers	Paper ID	Paper Title	Paper ID	Paper Title					
			Paper 1	96	Balancing of Energy Efficiency, Driving Excitement and Comfort in Battery Electric vehicles	376	Unified Thermal System simulations of an Electric Truck					
			Paper 2	167	Virtual validation of gear shifting lever assembly by impact optimization and correlation with testing	493	Unified Thermal System simulations of an Electric Truck					
			Paper 3	503	Optimization driven method to balance bolt force and thermal load on electric vehicle drivetrain	565	Studies on Design Aspects and Analysis on Thermal Battery Management System					
			Paper 4	504	Experimental approach for the blocking noise source identification & its suppression through lubrication regime optimization in crank-bran of an IC engine	568	Thermal and Loss analysis of OAB converter for Electric Vehicle application					
					Mitigation of abnormal injector ticking noise by optimization of crank-operational modes of fuel system		Thermal Propagation of Li-Ion batteries: a simulation methodology for enhanced and accelerated virtual development					
Oct 13, 2022	14:00-15:45	G82	Session 9	Emission, Environment and Sustainability-2	Mr. Arun Shankar, Continental							
			Session 10	Autonomous & Connected Vehicle-2	Mr. Aditya Anika Khong, Bosch							
			Keynote Session	Speaker Detail	Keynote Topic	Speaker Detail	Keynote Topic					
			No of Papers	Paper ID	Paper Title	Paper ID	Paper Title					
			Paper 1	106	Data driven Simulation of engine inputs of a car using Machine Learning	32	Thermal Management of a Vehicle Mounted Intelligent Forward View Camera					
			Paper 2	465	Telematics Smart Telematics and Validation Tool	162	Panoptic Based Camera and Laser Fusion for Distance Estimation in Autonomous Driving vehicles					
			Paper 3	475	Online NVH Data Pattern Analysis through Telematics	350	Automatic Radar Obstacle Classification using LSTM					
			Paper 4	530	Cloud based diagnosis algorithm for three way catalytic converter of an IC engine exhaust system	392	Multi Sensor Fusion for determining Road Quality for Semi Autonomous Vehicles					
Oct 13, 2022	14:00-15:45	G82	Session 11	Manufacturing, Materials & Lightweight Solutions-2	Dr. S.P. Chaudhary, TCS							
			Session 12	Vehicle Electronics & Software-2	Mr. Arun Shankar, Continental							
			Keynote Session	Speaker Detail	Keynote Topic	Speaker Detail	Keynote Topic					
			No of Papers	Paper ID	Paper Title	Paper ID	Paper Title					
			Paper 1	74	Development of Prediction Models for spark erosion machining of GFRP using regression analysis							
			Paper 2	218	Hole Expansion Characteristics of Advanced High Strength Steel (AHSS) grades and their Effects on Manufacturability in Automobile Industry							
			Paper 3	434	A interior permanent magnet synchronous motor with high strength soft magnetic cobalt-iron alloy as stator-core material for electric vehicle application							
			Paper 4	41	Prediction of optimized design under dynamic loads using Finite element model							
Oct 13, 2022	9:00-10:45	G82	Session 13	Simulation and Testing-3	Mr. Mahesh Kumar, Tata Motors							
			Session 14	Hybrid & EV-3	Mr. Anish Pragasam, Ansys							
			Keynote Session	Speaker Detail	Keynote Topic	Speaker Detail	Keynote Topic					
			No of Papers	Paper ID	Paper Title	Paper ID	Paper Title					
			Paper 1	186	Advanced Cabin Simulation in ID CAE to Predict Occupants' Head-Neck Air Temperature	304	A Low Cost Self-Driven Electric Three Wheeler with Pathline Ramp for Precisely Chaperoned Pedestrian					
			Paper 2	381	Aircraft systems qualification test definition by structural analysis techniques	350	Design and Development of low cost Electric Motor for Urban Commute					
			Paper 3	398	Modeling and Simulation of a Higher arcush cable pressure control system using AMESim	520	Evaluation of India EV Ecosystem					
			Paper 4	411	A cost-effective approach to attain near-vehicle conditions in coolant circuit of engine test bench	526	Carbon Credit Scoring System for Road Vehicles					
Oct 13, 2022	9:00-10:45	G82	Session 15	Emission, Environment and Sustainability-3	Mr. M. Karthikeyan, Infosys							
			Session 16	Vehicle Dynamics, Active Safety & Control-1	Mr. R.V. Karaneni, ANR							
			Keynote Session	Speaker Detail	Keynote Topic	Speaker Detail	Keynote Topic					
			No of Papers	Paper ID	Paper Title	Paper ID	Paper Title					
			Paper 1	22	Simulation based approach for DPF calibration to reduce overall development time and improve accuracy and robustness	265	Methodology to Optimize Radiator Fan Induced Steering Wheel Vibration of a Car					
			Paper 2	174	Process improvement for tire reusability	402	Valve-Train dynamics calculation, model simulation and actual testing for friction reduction to improve PE					
			Paper 3	354	Study of effect of ethanol blending on Performance & Fuel economy of naturally aspirated gasoline engine and engine hardware optimization studies	412	CAE approach to reduce engine mount rumble noise					
			Paper 4	518	Objective determination of degradation of ambid sensor with orthogonal latin square method	413	Noise investigation and mitigation of Mechatronics brake control unit					
Oct 13, 2022	9:00-10:45	G82	Session 17	Manufacturing, Materials & Lightweight Solutions-3	Dr. S. Divorajan							
			Session 18	Vehicle Electronics & Software-3	Dr. S. Divorajan							
			Keynote Session	Speaker Detail	Keynote Topic	Speaker Detail	Keynote Topic					
			No of Papers	Paper ID	Paper Title	Paper ID	Paper Title					
			Paper 1	28	Digital simulation of Welding process to optimize Residual Stresses and Microstructure of Welded Suspension Component							
			Paper 2	57	Investigation on advanced joining method for Inconel 718 and SS304 dissimilar alloys							
			Paper 3	65	Development of Regression models for laser beam welding of Inconel 718 alloy thin sheet							
			Paper 4	148	Investigation on formability of tailored AA7075 thin sheets in friction stir welding							
Oct 13, 2022	13:30-15:30	G82	Session 19	Simulation and Testing-4	Dr. Martin Ellis							
			Session 20	Hybrid & EV-4	Mr. Anish Pragasam, Ansys							
			Keynote Session	Speaker Detail	Keynote Topic	Speaker Detail	Keynote Topic					
			No of Papers	Paper ID	Paper Title	Paper ID	Paper Title					
			Paper 1	33	CAE Method of Generating Composite Unique Fiber Path (CUFP)	16	The Thermal System as a Key Differentiator for Performance and Comfort in BEV					
			Paper 2	115	Failure simulation and CAE testing loop strategy for load case optimization for vehicle suspension	35	Model-based Hardware-in-Loop Testing of Battery Management System					
			Paper 3	177	To investigate the failure in sensor assembly due to temperature variational loading, and to provide optimum material selection to apply this failure	81	Hardware in Loop Testing of ECU for automotive applications for self-driving vehicle					
			Paper 4	335	Effect of Initial Assembly Gaps on Thread Strip and Fatigue Assessment of Bolted Joint	344	Electrochemical & Equivalent Circuit Modelling and Validation of Lithium-Ion Battery Cell in GT-Autoclan					
			Paper 5	348	Improved Headlamp Modelling with Fracture through Component level development	362	Machine Learning approaches for Lithium-Ion battery health parameters estimation					

