Date	Time	Hall Name Session Number		GBR2 Session 1		Studio 1 Session 2
	9:00 - 10:45	Session Title Session Chair Session Co-Chair		Simulation and Testing-1 Mr. Rashmi Rao, Mathworks		Hybrid & EV -1 Mr. Ashok Khondge, Ansys
		Keynote Session	Speaker Detail	Keynote Topic	Speaker Detail	Keynote Topic
Oct 12,		No of Papers	Mr. L. Kira, AVL Paper ID	Vehicle Model Factory – Validated Digital Twin from Road Measurement Paper Title	B. Raser - AVL Paper ID	The AVL Hydrogen Engine for CO2 neutral goods transportation Paper Title
2022		Paper 1	138	Material Characterization of Strain Rate Dependent Elastomers using Simplified Rubber Material Model in LS-	27	Method to Improve DPF Regeneration performance for critical start- stop driving profiles.
		Paper 2	178	DYNA Design Improvement Of Engine Mounts in Commercial Whites Analysis of Hollow Hyper-elastic gasket filled with Air using	325	Is battery swapping a viable alternative to accelerate ev adoption in india? State of charge estimation of Li ion battery using Extended
		Paper 3 Paper 4	320 421	Fluid Cavity Approach CAE approach for radiator bush dynamic simulation	345 539	Kalman filter and combined model Optimal Control Strategy using Cloud for a Parallel Topology Based HEV to Minimize Energy Consumption
			41	Studio 2 & 3	539	Topology Based HEV to Minimize Energy Consumption Studio 6
Date	9:00 - 10:45	Hall Name Session Number Session Title Session Chair	Emission	Session 3 n, Environment and Sustainability-1 Mr. M K Chaudhari, ARAI	Session 4 Autonomous & Connected Vehicle-1 Mr. Ramachardran S, Infloys	
		Session Co-Chair Keynote Session	Speaker Detail	Keynote Topic	Speaker Detail	Keynote Topic
Oct 12,		No of Papers	Mr. Eugenio Sergio Longo, TCS Paper ID	Paper Title CFD Simulation of Gaseous Fuel Combustion in Constant	Dr. Shanti Medasani, Mathworks Paper ID	Paper Title
2022		Paper 1	8	Volume Combustion Chamber using Multi-point Laser lanition Simulation study of post-combustion CO2 adsorption using	29	Functional Safety Concept of "Minimum Risk Maneuver" in Conditional Driving Automation (Level 3) vehicles Design and Implementation of Adaptive Accident
		Paper 2 Paper 3	10 201	adsorbent Evnerimental testing of snray characteristics of swirler	271 287	Avoidance System for Autonomous Vehicles Validation Challenges of Safety of the intended functionalities (SOTIF) risks/hazards
		Paper 4	481	iniector with sinele/double vane in LPRE Experimental study of Nano-second high voltage plasma ignition with J-Type Spark Plug in a constant volume combustion chamber	486	Engine Overheating Prediction using Machine learning with Gaussian Mixture Model (GMM)
Date	Time	Hall Name Session Number		Studio 7 Session 5		
		Session Title Session Chair Session Co-Chair	Manufacturing, Materials & Lightweight Solutions-1 Mr. Sanjay Nitandha, ARAI			
		Keynote Session No of Papers	Soeaker Detail Dr. B.P. Gautham, TCS Paper ID	Kevnote Took Paper Title		
Oct 12, 2022	9:00 - 10:45	Paper 1	23	Effect of Normalizing Heat Treatment on Material and Mechanical Properties of High Strength Steel Tube for Lift axle of Commercial Vehicles		
	10.45	Paper 2	273	Role of Thermo-mechanical treatment on Creep Deformation Behavior of Reduced Activation Ferritic Martensitic Steel		
		Paper 3	306	Study of Strain Ratio Effects on Low Cycle Fatigue Behavior of Dual Phase (DP) Steel Effect of solutionising on change in phase morphology and		
		Paper 4	308	Effect of solutionising on change in phase morphology and mechanical behavior for AZ series as cast automotive magnesium alloy components		
Date	Time	Hall Name Session Number Session Title		GBR2 Session 6 Simulation and Testing-2		Studio 1 Session 7 Hybrid & EV-2
		Session Chair Session Co-Chair	Speaker Detail	Mr. Vijayalayan, Mathworks Kewnote Tonir	Mr. Speaker Detail	Vinod Venkateswaran, Infosys Keynote Topic
		Keynote Session No of Papers	G. Schrank, AVL Paper ID	Balancing of Energy Efficiency, Driving Excitement and Comfort in Battery Electric Vehicles Paper Title	Mr. Shekhar Malanai Devise Electronics Paper ID	Paper Yitle
Oct 12, 2022	14:00- 15:45	Paper 1 Paper 2	96 167	Virtual validation of gear shifting lever assembly by impact simulation and correlation with testing Optimization driven method to balance bolt force and	376 493	Unified Thermal System simulations of an Electric Truck Studies on Design Aspects and Analysis on Thermal Battery
		Paper 2 Paper 3	167 503	torque in automotive headlamo assebmiv Experimental approach for the knocking noise source	493	Management System Thermal and Loss analysis of DAB converter for Electric
				identification & its suppression through lubrication regime optimization in crank-train of an IC engine		Vehicle application Thermal Propagation of Li-lon batteries: a simulation
		Paper 4	504	Mitigation of abnormal injector ticking noise by optimization of hydraulic operational modes of fuel system	568	methodology for enhanced and accelerated virtual development
Date	Time	Hall Name Session Number		Studio 2 & 3 Session 8		Studio 6 Session 9
	14:00- 15:45	Session Title Session Chair Session Co-Chair	Vel N	nicle Electronics & Software -1 Ir. Arun Shankar, Continental	Autonomous & Connected Vehicle-2 Mr. Abhay Anna Khonje, Bosch	
Oct 12,		Keynote Session	Soeaker Detail Mr. Suraj Nair Quest Global	Kewnote Took	Speaker Detail Dr Arun Sampath, TCS	Keynote Took
2022		No of Papers Paper 1	Paper ID 106	Paper Title Data driven Simulation of telemetry signals of a car using Machine Learning	Paper ID 32	Paper Title Thermal Management of a Windshield Mounted Intelligent Forward View Camera
		Paper 2 Paper 3	465 475	Telematics Smart Testing and Validation Tool	162	Panoptic Based Camera and Lidar Fusion for Distance Estimation in Autonomous Drivine Vehicles Automatic Radar Obstacle Classification using LSTM
		Paper 4	4/5	Online NVH Data Pattern Analysis through Telematics Cloud based diagnosis algorithm for three-way catalytic converter of an IC enzine exhaust system	350 392	Automatic Nadar Obstacle Classification using LSTM Multi Sensor fusion for determining Road Quality for Semi Autonomous Vehicles
Date	Time	Hall Name Session Number		Studio 7 Session 10		
	14:00- 15:45	Session Title Session Chair	Manufacturing: Materials & Lightweight Solutions-2 Dr Shashikanth Karinka, NMAM Institute of Technology (Nitte)			
		Session Co-Chair Keynote Session	Speaker Detail Mr. N K Vaidya, Tata Motors	Keynote Topic		
Oct 12, 2022		No of Papers Paper 1	Paper ID 74	Paper Title Development of Prediction Models for spark erosion machining of SS304 using Regression Analysis		
		Paper 2	218	Hole Expansion Characteristics of Advanced High Strength Steel (AHSS) grades and their Effects on Manufacturability in Automotive Industry		
		Paper 3	434	A interior permanent magnet synchronous motor with high strength soft magnetic cobalt-iron alloy as stator-rotor material for electrical vehicle annivation		
		Paper 3 Paper 4	434	A interior parmanent magnet synchronous motor with high strength soft magnetic cobalt-iron alloy as stator-rotor material for electrical vehicle application Prediction of optimized design under dynamic loads using krisins metamodel		
Date	Time	Paper 4 Hall Name		high strength soft magnetic cobalt-iron alloy as stator-cotor material for electrical vehicle application Prediction of optimized design under dynamic loads using krisinar metamodel GERZ Session 11		Studio 1 Session 12
Date	Time	Paper 4 Hall Name	41 Mr	high strength soft magnetic cobalt-iron alloy as stator-retor material for electrical whiches application Prediction of optimized design under dynamic loads using krisine metamodel. GRE GRE SIEWANNIA TERMINA STATEMENT		Session 12 Hybrid & EV -3 Mr. Sujäya, Volvo
		Paper 4 Hall Name Session Number Session Title Session Chair Keynote Session		high strength of magnetic coloid - from alloy as state reterm material for electrical which agriculture. Prediction of optimized deeps under dynamic loads using brightness and strength of the strength of the GBR2 GBR2 Simulation and Totaling-3 Simulation and Totaling-3 Kalmins Strength, Tala Molitors Kewnote Totalic Kewnote Totalic	Soeaker Detail Mr. Dr Thomas Hudshorst FEV	Session 12 Hybrid & EV-3 Mr. Sojaya, Volvo Kevnote Yook
Date Oct 13, 2022	9:00 - 10:45	Paper 4 Hall Name Session Number Session Chair Session Chair Session Co-Chair Keynote Session No of Papers Paper 1	41 Sonaker Detail Dr. Prift Banerjee Antixi. Paper ID 186	Naj streetjik od mejerik cidali ira silaya stater odor meteri far isani vari variska spoljani. Prediction of optimized daign ander optimized daign odor dynamic todali saligi. GREG TOTALI STATE OD STAT	Mr. Dr Thomas Huelshorst FEV Paper ID 204	Session 12 Hybrid & EV-3 Mr. Sujiya, Volvo Kewnote Took Kewnote Took Paper Title A Low Cost Set Driven Electric Three Wheeler with Folkblik Ream for Physicially Challened Persons
Oct 13.	9:00 -	Paper 4 Hall Name Session Number Session Title Session Chair Keynote Session No of Papers	41 Me Sousker Detail Dr. Prith Banerjee Action Paper ID	This strength can improve colonit in on alloy a state rate means for a leader of which application of registrated design and the dynamic loads using the means of the colonity of the dynamic loads using the means of the colonity of the col	Mr. Dr Thomas Huelshorst FEV Paper ID	Session 12 Hybrid & EV-3 Mr. Sujiya, Volvo Kewnote Yook Kewnote Yook Paper Title A Low Cost Self-Driven Electric Three Wheeler with
Oct 13.	9:00 -	Paper 4 Hall Name Session Number Session Talue Session Chair Session Co-Chair Session Co-Chair Keynote Session No of Papers Paper 1 Paper 2	Mr. Speaker Detail Or. From Saveryle Pager ID 186 261	Negotian Conference Code in one suby as state rate material for all conference in a conference	Mr. Dr Thomas Huelshorst FEV Paper ID 204 206	Season 12 We Super, Nice Executed Task Executed Task A Low Cost self-break Executed Task A Low Cost self-break Executed Task Design and Development of the word Executed Vision Cost Self-break Executed Vision Design and Development of the word Executed Vision Cost Self-break Executed Vision Executed Task Executed Vision Cost Self-break Executed Vision
Oct 13.	9:00 - 10:45	Paper 4 Hall Name Hall Name Session Number Session Title Session Chair Session Chair Session Chair Session Chair Session Co-Chair Keynoto Session No of Papers Paper 1 Paper 2 Paper 3 Paper 4 Hall Name Session Number	50 Sensitor Detail 10 Co. Rev. Progress 10 Sensitor Detail 10 Co. Rev. Progress 10 Sensitor 10 Sensito	high strength coll majoritic collab in on alloy a state rotor impair for its extract of the state of the stat	Mr. Dr Thomas Huelshorst FLY Paper ID 204 206 520 526	Season 12 We Super, New Season 12 We Super, New Season 12 As Congress Season 12 As Congress Season 12 As Congress Season 12 As Congress New Season 1
Oct 13, 2022	9:00 - 10:45	Paper 4 Hall Name Hall Name Session Number Session Title Session Chilr Session Co-Chalr Session Co-Chalr Session Co-Chalr Session Co-Chalr No of Papers Paper 1 Paper 2 Paper 3 Paper 4 Hall Name	41 South Oct. South Oct. The Page 10 16 16 16 16 16 16 16 16 16	high credit poll magnetic clothic rice alloys a state rate material for interference which a pollution of maniference in the control of the company of the c	Mr. Dr Thomas Hudshbort Paper ID 204 206 520 520 526	Season 12 We Super New York White & York A Live Cost Medic & Season Table Cost Medic Cost Medic & Season Table A Live Cost Medic & Season Table Se
Oct 13, 2022	9:00 - 10:45	Paper 4 Session Number Session Number Session Chir Session Chir Session Chir Reprots Session No of Paper Paper 3 Paper 3 Paper 4 Holl Number Session Chir Session Chir Session Chir Session Chir Session Chir Session Chir Keynots Session	50 Sensitor Detail 10 Co. Rev. Progress 10 Sensitor Detail 10 Co. Rev. Progress 10 Sensitor 10 Sensito	This process of the majorite colonia from solvy a state rotor material for identical valence application of the specific colonia for a state of the state of the specific colonia and the specific c	Mr. Dr Thomas Hushihort Paper ID 204 206 520 520 526 Vahicle! Vahicle! Mr Achol Kumar Iha Mr Achol Kumar Iha	Season 12 Windows You's Windows You's Windows You's Windows You's Windows You's Windows You's Andre Cost Marine Season Andre Cost Marine Season Andre Cost Marine Season Andre Cost Marine Ma
Oct 13, 2022	9:00 - 10:45	Paper 4 Session Number Session Number Session Chief Session Chief Session Cale Report Session No of Paper Paper 3 Paper 3 Paper 4 Mail Nume Session Number Session Number Session Chief	41 Sensiar Detail Or. No. Sensorpus Paper D 186 318 411 Image: Commission of the Commission of th	high consequence could not an approximate the process of the proce	Mr. Dr Thomas Huskihorst Paper ID 204 206 520 520 526 526 526 526 526 526 526 526 526 526	Season 12 We Super, Need Executed Task A Loar Cost Self Season Executed Task A Loar Cost Self Season Executed Task A Loar Cost Self Season Execute Task A Loar Cost Self Season Execute Task Cost Self Season Execute Task Cost Self Season Execute Task Cost Season Execute Task Cost Season Execute Task Season Executed Task Season Executed Task Executed Task Executed Task Executed Task Values Months Cost Season Values Task Values Months Cost Season Values Task Values Months Cost Season Months Seas
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Oct 13, 2022 Date Oct 13, 2022	9:00 - 10:45 Time	Paper 4 Intil Name Session Number Session Number Session Number Session Number Session Co-Chair Report Session Na of Paper 3 Paper 2 Paper 3 Paper 4 Mall Name Session Number Keynotis Session Na of Paper 3 Paper 4 Mall Name Session Number	41 50 50 50 50 50 50 50 5	high strength coll majoritis collable and shape a state rate material for identical design under dynamic loads using high collaboration of regional design and regiona	Mo. O' Thomas systematics Person 10	Season 12 We Super, New York States of Season 12 A Loar Cost Self Season 12 A Loar Cost Season
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Oct 13, 2022 Octs Octs Oct 13, 2022	9:00 - 10:45 Time 9:00 - 10:45	Paper 4 feel Name Session Number Session Charle Session Charle Session Charle Session Charle Paper 3 Paper 3 Paper 3 Paper 3 Paper 4 feel Name Session Charle Session	10 10 10 10 10 10 10 10	high consequence could not an advance color material for electrical which is patient or an advanced or material for electrical which is application of patients and design value of patients and service of control of patients and design value of patients and value o	Mo. Or Thomas without Peer 10 204 204 205 205 205 205 205 205 205 205 205 205	Meanine 12 White is TV 2 Allow Cost and the Search In Table Allow Cost and the Search In Table White or with Feddings to the Search In Table White or with Feddings and Development of the own of Electric Monoral for White Commons Evolution of the Own cost Electric Monoral for White Commons Evolution of the Ut Engine Evolution of the
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Oct 13, 2022 Octs Octs Oct 13, 2022	9:00 - 10:45 Time 9:00 - 10:45	Paper 4 Intel Nome Session Number Session Chair Session Chair Session Chair Session Chair Session Chair Paper 3 Paper 3 Paper 3 Face 2 Paper 3 Face 3 Face 3 Face 4 Face 4 Face 4 Face 4 Face 5 Face 5 Face 5 Face 6 Face 6 Face 6 Face 6 Face 6 Face 7 F	Senior Detail Senior Detail Deta	high consequence of the control of t	Mo. O' Thomas without Peer III of the Control of th	Section 12 White EX TO White White EX TO White W
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Oct 13, 2022 Outs	9:00 - 10:45 Time: 9:00 - 10:45	Paper 4 Intel Name Session Name Session Name Session Name Session Cocket Session Name Session Cocket Session Name Session	1	halp accomplish cold majorists coldulation and shape a status crotor material for lateral windows application which application of which application of partners and engine mode of partners bear using a status in a status i	Mo. Or Thomas without Peer III of the Control of th	Season II William II Season II Seaso
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Date	Time	Hall Name		Studio 2 & 3		Studio 6
		Session Number Session Title	Session 18 Emission, Environment and Sustainability-3		Manufacturing, Materials & Lightweight Solutions-4	
		Session Co-Chair	Dr. K C Vora, COEP		Dr Nataraj, KV college of Engineering Soeaker Detail Kewnote Took	
		Keynote Session	Speaker Detail Mr. Adamo Screnci	Keynote Took	Speaker Detail Mr. Jorge Ramirez	Kevnote Took
	13:30- 15:30	No of Papers	Hydrogen Refueling Solutions Paper ID	Paper Title	General Motors Paper ID	Paper Title
ct 13,		Paper 1	25	Challenges and Strategies to Reduce Oil Dilution for BS6 Diesel Applications	553	Light weighting of a body jig using computational and topology optimization methods
1022		Paper 2	114	Emission Performance and Catalyst Durability Validation Methodology for Heavy Commercial Vehicle Applications	58	Machinability Studies on Wire Electrical Discharge Machining of Aluminium based Metal Matrix Composit for Automotive Applications
				Study on Exhaust Particle and Unregulated Emission		for Automotive Applications Accurate Material Modeling and Analysis of Fiber-Filler Thermoplastics to enable Light weighting in Automotive
		Paper 3	171	Characteristics of a Heavy Duty Natural Gas Engine with HCNG Fuel	72	Applications
		Paper 4	425	Design methodology to restrict Catalyst theft in Passenger Vehicles	355	Cold Spray Repair Process Optimization Through Development of Particle Impact Velocity Prediction
		Paper 5	483	Cold start HC emission reduction using targeted fuel	155	Methodology Thermoplastic solutions for ev battery protection
			463	heating	155	Thermoplastic solutions for ev battery protection
Date	13:30- 15:30	Hall Name Session Number	Studio 7 Session 20			
		Session Title Session Chair	Vehicle Dynam Mr	ics, Active Safety & Control-2 . Vijai G, General Motors /TCS		
		Session Co-Chair	Speaker Detail	Keynote Topic		
		Keynote Session	Dr. Ashok Kumar Pandey IIT Hyderabad			
ct 13,		No of Papers Paper 1	Paper ID 62	Paper Title A new design employing eddy-current braking for		
		Paper 2	26	automotive application An Automated Procedure for Implementing Steer Input		
		Paper 3	180	During Ditch Rollover CAE Simulation Comfort Backup Assist Function		
		Paper 4	255	Characterization of Automotive Seat NVH Performance		
		Paper 5	463	Digital signal Processing of accelerometer data for Automotive Safety applications		
ate	Time	Hall Name		GBR2 Session 21		Studio 1
		Session Number Session Title		Simulation and Testing-S Dr. Manish Garg, TVS	Aut	Session 22 onomous & Connected Vehicle-3 nikethana Venkatachalapathy, Vitesco
		Session Chair Session Co-Chair			•	
		Keynote Session	Speaker Detail	Keynote Topic	Speaker Detail	Keynote Topic
			Mr. Pratyush Khare Tata Motors		Dr Nagesh Poojary Continental	
		No of Papers	Paper ID	Paper Title	Paper ID	Paper Title Caption Generation for Traffic Siens Using a Deep Neur
t 14, 022	9:00 - 10:45	Paper 1	262	Knowledge based integrated parametric product design	334	Caption Generation for Traffic Signs Using a Deep Neur Scheme
		Paper 2	391	Mixed Reality (MR) based remote assistance for disposition of aircraft manufacturing Non-conformance	395	Traffic Object detection and Distance estimation using YOLOV3
				(NC) during Covid or Post Covid work Environment		YOLOV3 Evolution of ADAS and V2X[Vehicle to
		Paper 3	462	Predictive Maintenance of Automotive Component Using Digital Twin Model	407	vehicle/cloud/infrastructure) for Indian roads and the
		Barret	4	Simulation of closed loop current control of Finite Control		Challenges thereof Development of Lane Departure Warning System and 5
		Paper 4	467	Set – Model Predictive Control and Integral Finite Control Set – Model Predictive Control	563	Testing for AV Systems in India
Date	Time	Hall Name		Studio 2 & 3 Session 23		Studio 6 Session 24
		Session Number Session Title	Emission	Jession 25 L. Environment and Sustainability-4 Dr. Ajeet Babu, COEP	w	phicle Electronics & Software -2
		Session Chair Session Co-Chair				Mr. Ankur Gupta, MSIL
		Keynote Session	Speaker Detail Mr. Avani Shah	Kewnote Topic	Speaker Detail Ms.Rashmi Rao	Keynote Topic
		No of Papers	Cummins Paper ID	Paper Title	Mathworks Paper ID	Paper Title
ct 14,	9:00 - 10:45	Paper 1	295	Production of Methanol by using Formic Acid with Copper as Catalyst	294	A Virtual Environment for an early development and validation of next generation Digital Vehicle Entry
				Comparative assessment of alumina additive chlorella		Functions Enhanced sustainability using "Predictive functions wit
		Paper 2	302	vulgaris biodiesel effect on coated and uncoated diesel engine	442	Route recognition
		Paper 3	374	IC Engine Dynamic Oil Life Prediction Using Machine Learning Approach	470	Thermal alarm handling in safety critical electronic cont units for automated vehicle using AI and Machine Learn
		Paper 4	466	Assessment of Non-Conventional Fuels on a small size PFI	528	Machine Learning based Instrument Cluster inspection
		Hall Name		Engine Studio 7		using Camera
Date	9:00 - 10:45	Session Number	Session 25 Vehicle Dynamics, Active Safety & Control-3 Mr. Santoshiumar Palan, 2F			
		Session Chair				
		Session Co-Chair Keynote Session	Speaker Detail Dr Tom Gillespie	Kewnote Topic		
			University of Michigan	B		
Oct 14, 2022		No of Papers	Paper ID	Paper Title Motorcycle Crash Severity Estimation for Effective		
oct 14, 2022	10:45	Paper 1	128	formation of the control of the cont		
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