Date: 13/12/2023
Slot 1 (1st Half)
Parallel Session 1(S1): Power Electronic Converters
Time: 9.30 am to 11.00 am
Session Chairs: ………………….
Venue: Session Hall 1

Sl no	Paper id	Paper title	Authors	Time slot
1	77	A New Impedance Source Network based Dual Output Inverter	Kanugula, Mohan Kumar; Kumar Yadav, Gulshan; Suthar, Anvi; Jammala, Venkataramanaiah*	9.50 AM
2	118	Modeling and Control of Digitally Controlled Series Resonant Converter using Software Frequency Response Analysis	Kesava, Sai*; C, Nagesha ; Lakshmi Narasamma, N.	10.05 AM
3	120	Energy efficient Onboard EV Charger Employing Partial Power Processing DC-DC Converter	Veerakgoundar, Veeramani*; Subramaniam, Senthil Kumar	10.20 AM
4	182	A Switched-Capacitor based Multilevel Inverter with Extendable Levels having Enhanced Voltage Gain for Renewable Energy Applications	Alhitmi, M.A.; Iqbal, Atif; Islam, Shirazul*; Hussan, Md Reyaz; AWADELSEED, AHMED	10.35 AM
5	205	An Improved Electrothermal Modeling of Two-Level Inverter for Electric Vehicle Applications	R, Raja Singh*; Raju, Manikandan	10.50 AM

Date: 13/12/2023
Slot 1 (1st Half)
Parallel Session 2 (S2): Vehicle Architecture & Safety
Time: 9.30 am to 11.00 am
Session Chairs: ………….
Venue: Session Hall 2

Sl no	Paper id	Paper title	Authors	Time slot
1	91	Impact of single pedal braking on braking performance of electrified heavy road vehicle for urban applications	K, Meena Priya*; Krishnadass, Karthick; Subramanian, Shankar C	9.50 AM
2	159	Improve energy efficiency of hybrid electric tractor drivetrain using centralized control	Kulkarni, Punamchandra Mr.*	10.05 AM

3	234	CARBON NEUTRALITY APPROACH, STANDARDS, REGULATIONS, POLICIES & CIRCULAR ECONOMY	Ramaiah, Pandian*; Muthusamy, Ramesh; Nallathambi, Gopalakrishnan	10.20 AM
4	279	Homomorphic Encryption Technique in Over the Air (OTA) update in ECUs	Abichandani, Neetigya*; ARUNAGIRI, LAKSHMANAN SORAKKA	10.35 AM
5	301	Integrating System Engineering Principles in Electric Vehicle Design	Keloth, Pradeep Kumar*; VENUGOPAL., SHANKAR	10.50 AM

Date: 13/12/2023
Slot 1 (1st Half)
Parallel Session 3 (S3): Fuel Cell vehicles
Time: 9.30 am to 11.00 am
Session Chairs: ……………….
Venue: Session Hall 3

Sl no	Paper id	Paper title	Authors	Time slot
1	14	Performance Study On 100kW Proton Exchange Membrane Fuel Cell for Commercial Vehicle Applications	Subramanian, Karthikeyan*; M, Gopi Sankar	9.50 AM
2	103	High Power Density Fuel Cell Systems for Commercial Vehicles	Rechberger, Juergen*; Macherhammer, Josef; Schenk, Alexander	10.05 AM
3	239	Sustaining Steady Voltage in Hybrid Fuel Cell and Battery Power Systems Amid Fluctuating Load Conditions	T M, Navinkumar*; C, bharatiraja	10.20 AM
4	295	Isolated DC Microgrid Operation with Hybridization of PV, FC, and Battery	Prajapati, Ashish*; Bharadwaj, Vineet; Chaudhary, Kalpana	10.35 AM
5	240	Designing functional safety architecture for FCEV vehicles	Muthusamy, Sugantha*	10.50 AM

Date: 13/12/2023
Slot 1 (1st Half)
Parallel Session 4 (S4): Renewable Integration, Smart Grids,and V2G
Time: 9.30 am to 11.00 am
Session Chairs: ……………….
Venue: Session Hall 4

Sl no	Paper id	Paper title	Authors	Time slot

1	150	Vehicle-to-Grid (V2G) and Renewable Energy (RE) Technologies for Grid Peak Load Management and Sustainability: A State-of-the-Art Survey	VISWANATH, BELAGAVI*; Padhy, Narayana Prasad; Khatod, Dr Dheeraj K	9.50 AM
2	176	Optimal Sizing of Renewable Generation and Battery Energy Storage System for Electric Vehicles considering Energy Management Strategy	Iqbal, Atif*; Ahmad, Fareed; Bilal, Mohd; ALAMMARI, RASHID; AL-WAHEDI, ABDULLAH; Islam, Shirazul	10.05 AM
3	305	North West America Mackenzie Valley Wolf Population Updating during Hunting inspired Optimization and Quasi-Opposition based Indian Leopard Cat Swarm Algorithm for Real Power Loss Diminution in Electrical Grid Transmission System for Smart City	Kanagasabai, Dr Lenin*	10.20 AM
4	309	Grid-Integrated Bidirectional EV Charger for G2V-V2G Mode with Optimized Power Quality	Sachan, Shailu*; Keshari, Rajat Kumar; Swarnkar, Pankaj	10.35 AM
5	338	Hybrid Energy Input Based EV Charging System with Multi-Mode Power Flow and Adaptive Optimal Power Management Scheme	Jena, Priyatosh *; Singh, Rajeev Kumar; Lal, Dr. V. N	10.50 AM

Date: 13/12/2023
Slot 2 (2nd half)
Parallel Session 5 (S5): Power Electronic Converters
Time: 4:30 pm to 6:00 pm
Session Chairs: ……………….
Venue: Session Hall 1

Sl no	Paper id	Paper title	Authors	Time slot
1	221	Transformerless Dual Input Dual Output DCDC Converter for Electric Vehicle Application	C, bharatiraja*; R, ARAVIND	4.50 PM
2	256	A Non-Linear Voltage Controller for Grid Voltage Sensor-less Power Factor Correction Converters	Singh, Prateek *; Bhule, Deeksha; Kaarthik, Sudharshan	5.05 PM
3	275	Coupled Inductor Based SIDO-Buck Converter with Self-Adaptive Digital PWM Control for	MS, Kamalesh*; C, bharatiraja; Cherukupalli, Kumar; S, Sanal Kumar; S,	5.20 PM

		12V/24V On-Board Lighting and Dashboard System for 48V-EV	Chandrasekar	
4	187	An Isolated Three-Port Converter with Multi- Level PFC Converter for Hybrid Charging Application	Tiwari, Akhilesh K*	5.35 PM
5	340	A Multifunction Multioutput On-board Power Processor for Electric Vehicles	Maurya, Virendra Prasad*; Singh, Rajeev Kumar	5.50 PM

Date: 13/12/2023
Slot 2 (2nd half)
Parallel Session 6 (S6): Electrical Machines & Drives
Time: 4:30 pm to 6:00 pm
Session Chairs:…………………..
Venue: Session Hall 2

Sl no	Paper id	Paper title	Authors	Time slot
1	40	A Model-Based Lumped Parameter Thermal Network for Online Temperature Estimation of IPMSMs in Automotive Applications	Reddivari, Reddiprasad *; Savant, Vishal; Eldeeb, Hassan	4.50 PM
2	170	Model Predictive Torque Control for Enhanced Switched Reluctance Motor Drive With Low Torque Ripple	M, DEEPAK*; G, JANAKI; C, bharatiraja	5.05 PM
3	163	Performance Analysis of Various PWM Strategies for Control of PMSM in High Voltage EV Applications	Sheshadri , Vishnu*; Mishra, Ramashis Kumar; Kamath, Rohith	5.20 PM
4	233	Influence of Different Direct Cooling Systems on Interior Permanent Magnet Traction Machine Performance	Banerjee, Anaugh*; Soulard , Juliette ; Ma, Xiyun; Nair, Sreeju S; Senthilnathan, SP	5.35 PM
5	124	Ripple test and impedance analysis procedures for normative evaluation of HVDC busses in EVs	Platzer, Thomas*; Winklhofer, Ernst; Leidorfer, Daniel; Rosenkranz, Thomas Christian	5.50 PM

Date: 13/12/2023
Slot 2 (2nd half)
Parallel Session 7 (S7): Wireless Chargers
Time: 4:30 pm to 6:00 pm
Session Chairs:…………………..
Venue: Session Hall 3

Sl no	Paper id	Paper title	Authors	Time slot
1	198	Enhancement of misalignment tolerance in multi-transmitter wireless Electric Vehicle charging system through an optimal transmitter stimulation	Ramakrishnan, Venkatesan*; A, Dominic Savio; Palanisamy, Thirumoorthy; Chandrasekar, Balaji; R, Narayanamoorthi; K, Srinivasan	4.50 PM
2	219	Isolated Single Switch High Frequency Inverter for Wireless Charging of Light Electric Vehicles	R, Venugopal; Chandrasekar, Balaji*; şehirli, erdal	5.05 PM
3	223	Wireless Power Transfer Based Vehicle to Two Vehicle (V22V) Charging	C, bharatiraja*; R, Nakkeeran	5.20 PM
4	225	Fault Tolerant Multi-leg Inverter Fed Roadway Wirelessly Powered Charging System	C, bharatiraja*; Aganti, Mahesh	5.35 PM
5	232	A Dual Receiver and Inherent CC-CV Operated Wireless EV Charging System with High Misalignment Tolerance Couplers	R, Narayanamoorthi*; J, Rahulkumar; C, Balaji; A, Dominic Savio	5.50 PM

Date: 13/12/2023
Slot 2 (2nd half)
Parallel Session 8 (S8): Renewable Integration, Smart Grids, and V2G
Time: 4:30 pm to 6:00 pm
Session Chairs:…………………..
Venue: Session Hall 4

Sl no	Paper id	Paper title	Authors	Time slot
1	342	Solar-to-Vehicle Charging with Maximum Power Point Tracking using Super-Twisting Controller	Soni, Dr. Sandeep Kumar*; Singh, Saumya; Kumar, Sunil; Sahu, Himanshu Sekhar; RK, Saket	4.50 PM
2	276	A G2V and V2V Competency Bidirectional Dual Active Bridge Converter	C, bharatiraja*; R, Nakkeeran	5.05 PM
3	306	Low distortion multilevel inverter for efficient solar PV generation for EV Application	Prabhu, Omer*	5.20 PM
4	128	A seven-level single-phase shared leg toroidal transformer based inverter for grid-connected applications	Yadav, Gulshan; Kanugula, Mohan Kumar; Suthar, Anvi; Jammala, Venkataramanaiah*	5.35 PM
5	311	Design of a Bi-Directional Dual Active Bridge Converter for Electric Vehicle Battery Charging	Rajender, Jatoth*; Dubey, Manisha; Kumar, Dr. Yogendra	5.50 PM

Date: 14/12/2023
Slot 3 (1st half)
Parallel Session 9 (S9): Electrical Machines & Drives
Time: 9.30 am to 11.00 am
Session Chairs:…………………..
Venue: Session Hall 1

Sl no	Paper id	Paper title	Authors	Time slot
1	236	Drive Cycle-based Loss Minimization Strategies for Induction Motor Drives in Electrified Vehicles	Shinde, Hrishil A; Sridharan, Srikanthan*	9.50 AM
2	238	Analytical modeling and Optimization of an Outer Rotor-Five Phase Switched	Rayeen, Zeeshan*; Payami, Saifullah	10.05 AM

		Reluctance Motor for In-Wheel Drive Applications		
3	271	An Improved ANPC-based 7-level Inverter with Reduced Component and Low TSV for EV Applications	Hussan, Md Reyaz*; Siddique, Marif Daula; Islam, Shirazul; Iqbal, Atif; Sarwar, Adil	10.20 AM
4	278	Inner loop Current Control Techniques for Speed controlled Double Inverter fed Wound Rotor Induction Motor Drive	JAIN, CHESHTA*; Jain, Amit Kumar	10.35 AM
5	300	Harmonic Minimization in Switched Capacitor Multilevel Inverter Using Improved Grey Wolf Optimization	Singh, Arya*; Lal, Dr. V. N; Mahanty, Ranjit	10.50 AM

Date: 14/12/2023
Slot 3 (1st half)
Parallel Session 10 (S10): Battery & Thermal Management System
Time: 9.30 am to 11.00 am
Session Chairs:…………………..
Venue: Session Hall 2

Sl no	Paper id	Paper title	Authors	Time slot
1	25	Smart Thermal System	Shahul Hameed, Hassain*; Veerabhadrachar, Rudresh; Kodur, Chethan	9.50 AM
2	34	Design for Disassembly: A Key to Achieving a Circular Economy for EV Battery Systems	Chakravorty, Buddhabrata*; Rao, Pathi Mohan	10.05 AM
3	46	System Validation with Battery-in-the-Loop Configuration using a Virtual Testing Toolchain	Kolar, Ales; Sammer, Gerlad; santiago, Prabhu*	10.20 AM
4	75	BMS Fusa - How to achieve FuSa compliance for a wireless BMS design	Tamas, Daniel; Miedl, Christian*	10.35 AM
5	81	Study on optimization of ultrasound welding of Al-Cu bimetallic busbar for battery EV	Choudhary, Prashant Kumar*; Chauhan, Shiv; Chengalvarayan, Raja	10.50 AM

Date: 14/12/2023
Slot 3 (1st half)
Parallel Session 11 (S11): Advanced Simulation, and Computational Intelligence tools (AI / ML / Data Analytics)
Time: 9.30 am to 11.00 am
Session Chairs:…………………..
Venue: Session Hall 3

Sl no	Paper id	Paper title	Authors	Time slot
1	55	Lumped parameter thermal model for IPMSM motors including housing, bearing and endcap for vehicle applications	Mittal, Pushkin M*	9.50 AM
2	61	A statistical approach to estimate transient torsional load on EV driveline due to sudden vehicle wheel slip grab event.	De, Subhadeep*; Kulkarni, Ninad	10.05 AM
3	69	Artificial Intelligence Based Model for Vehicle Cooling System	KIRAN, INAPAKURTHI RAVI*; Hallikeri, Jeevan	10.20 AM
4	71	A Mechanism to Determine Fast Charging Protocol of Battery	KIRAN, INAPAKURTHI RAVI*; Kadali, Madhuri	10.35 AM
5	89	Harnessing the Power of Right Data Over Big Data for Autonomous Driving using Data Analytics	Selvaraj, Surendhar*; Banerjee, Jaydeep	10.50 AM

Date: 14/12/2023
Slot 3 (1st half)
Parallel Session 12 (S12): Wireless Chargers
Time: 9.30 am to 11.00 am
Session Chairs:…………………..
Venue: Session Hall 4

Sl no	Paper id	Paper title	Authors	Time slot
1	246	A Multi-leg Powered Constant Voltage On-Road Charging System With an LCC-S compensation	R, Narayanamoorthi*; Shanmugam, Yuvaraja; C, Balaji; A, Dominic Savio	9.50 AM
2	252	Enhancement of Power Transfer efficiency in wireless charging of electric vehicles by Positioning system with sensor-based technology	Ramakrishnan, Venkatesan*; A, Dominic Savio; B, Partheeban; R, Narayanamoorthi; Chandrasekar, Balaji; R, Venugopal	10.05 AM
3	254	Power Control and	R, Narayanamoorthi*; J,	10.20 AM

		Efficiency Enhancement Topology for Dual Receiver Quasi-Dynamic Wireless Power Transfer EV Charging	Rahulkumar	
4	255	Power Factor Correction in Bidirectional Wireless Power Transfer System Using Primary Side Phase Shift Control Technique	R, Narayanamoorthi*; Venkatesan, Murugan	10.35 AM
5	260	Design and performance study of LCC-LCC and LCC-S Compensation Network for Wireless Charging of EV Battery	Chandrasekar, Balaji*; R, Venugopal; selvaraj, jayachitra; Balasundaram, G; A, Dominic Savio; Lim, Wei Hong	10.50 AM

Date: 14/12/2023
Slot 3 (1st half)
Parallel Session 13 (S13): EV Tech Capability Building
Time: 9.30 am to 11.00 am
Session Chairs:…………………..
Venue: Meeting Room A

Sl no	Paper id	Paper title	Authors	Time slot
1	125	Prediction of Sealant Performance Parameters using Kriging model	Brahma, Anupam Kumar; Duddu, Varaprasad*; Sahu, Abhishek; Ch, Bhaskara; Mallu, Venkata Reddy	9.50 AM
2	126	Single electric motor full hybrid solution for developing markets	Satapathy, Subhasish*	10.05 AM
3	136	A Systematic Approach to Mitigate Semiconductor Chip Shortage: Insights and Solutions for the Future Automotive Industry	Kulkarni, Mandar; G C, Pooja; Thangavel, Prithiviraj*; M, Vijayalakshmi	10.20 AM
4	241	A Pragmatic Model-Based Design approach to accelerate and scale the EV Skills development	RAJENDRAN, VIJAYALAYAN*; Rao, Rashmi; VENUGOPAL., SHANKAR	10.35 AM
5	299	Enhanced Technical Capability Building for EV and SDV through AI – based Functional Competency Assessment	Malani, Shekhar*; Inamdar, Javed; VENUGOPAL., SHANKAR	10.50 AM

Date: 14/12/2023
Slot 4 (2nd half)
Parallel Session 14 (S14): Electrical Machines & Drives
Time: 2:00 pm to 3:30 pm
Session Chairs:…………………..
Venue: Session Hall 1

Sl no	Paper id	Paper title	Authors	Time slot
1	308	Flux-Barrier Based Rotor Design of Permanent Magnet Assisted Synchronous Reluctance Motor with Power Density and Torque ripple Improvement For E-Mobility	Kumar, Naga Sampath*; Srnivas, Srirama	2.20 PM
2	315	Small Signal Analysis and Control of High-Speed PMSM Drive consisting of LCL filter	PANDA, ASHISH KUMAR*; Tripathi, Avanish	2.35 PM
3	328	Linearization of Over-modulation Region for a Dodecagonal Space Vector Structure with a Single DC Source	Kushwaha, Balwant; V, Vidya; Kaarthik, Sudharshan*	2.50 PM
4	330	Model Predictive Current Control Improved performance on Switched Reluctance Motor Drive for Electric Vehicles	M, DEEPAK*; G, JANAKI; C, bharatiraja	3.05 PM
5	283	Versatile On-Board Power Processor for BLDC & IM Driven Electric Vehicles	Maurya, Virendra Prasad*; Singh, Rajeev Kumar	3.20 PM

Date: 14/12/2023
Slot 4 (2nd half)
Parallel Session 15 (S15): Battery & Thermal Management System
Time: 2:00 pm to 3:30 pm
Session Chairs:…………………..
Venue: Session Hall 2

Sl no	Paper id	Paper title	Authors	Time slot
1	141	Design and Development of PSA System for Ultra Purification of Green Hydrogen.	Joshi, Ayush M*; Chaulamwar, Ninad Sanjay; Tendolkar, Mandar; Dhore, Anil	2.20 PM
2	143	Battery Cooling System Optimization for Battery Electric Bus	Solomon, Samson*; SV, MasterEniyan; prasad, Gouri; S, Santhakumar; S,	2.35 PM

			yuvaraj; D, Govindaraj	
3	164	Effects of Realistic Driving Profiles on the Degradation of Lithium-Ion Batteries	Kalk, Alexis*; Holocher, Marc Clemens; Ohneseit, Sebastian; Kupper, Christian; Hiller, Marc	2.50 PM
4	183	Analyzing the Impact of Lithium-Ion Battery Recovery Strategy on e-Mobility Revolution	PRATAP, BHANU*; T V, Krishna Mohan; R K, Amit; VENUGOPAL., SHANKAR	3.05 PM
5	195	Microstructural and Compositional analysis of Cyclic Aged Lithium-Ion 18650 Cylindrical Cells Nickel Manganese Cobalt (NMC) & Lithium Iron Phosphate (LFP)	Waghmare, Asmita Satish*; Pandit, Sachin P; Mahagaonkar, Nitin S; Jambhale, Medha	3.20 PM

Date: 14/12/2023
Slot 4 (2nd half)
Parallel Session 16 (S16): Advanced Simulation, and Computational Intelligence tools (AI / ML / Data Analytics)
Time: 2:00 pm to 3:30 pm
Session Chairs:…………………..
Venue: Session Hall 3

Sl no	Paper id	Paper title	Authors	Time slot
1	90	Scalable Multi-physics Simulation to Support PEM Fuel Cell System Development	Reinhard Tatschl*; Christoph Pötsch; Anton Markus Reiter; Daniel Ritzberger; Vinay Kumar	2.20 PM
2	166	Optimal Transition of Fleets to Electric Vehicle using Mathematical Optimization	kumar, Abhay*; Nagar, Deepak; Ramanath, Vinay ; Subbaiah, Smaran	2.35 PM
3	167	Analysis of Solvers in MATLAB for Power Converter Applications	Surya, Sumukh*; Chhetri, Ahilya; Mudlapur, Arjun	2.50 PM
4	174	Design Optimization in Automotive Product Development Using AI/ML Algorithms	ALTHI, TIRUPATHIA RAO*; reddy, harivardhan; K, Manu; manuel, Naveen	3.05 PM
5	208	Virtual Road Load Data Simulation	Patel, Hiralkumar G*; Kansagara, Smit M	3.20 PM

Date: 14/12/2023
Slot 4 (2nd half)
Parallel Session 17 (S17): Wireless Chargers
Time: 2:00 pm to 3:30 pm
Session Chairs:…………………..
Venue: Session Hall 4

Sl no	Paper id	Paper title	Authors	Time slot
1	303	An Improved Vehicle-To-Vehicle Wireless Power Transfer System for Electric Vehicle Applications Using Reconfigurable Two-Phase Transmitter	Ramakrishnan, Venkatesan*; A, Dominic Savio	2.20 PM
2	310	Feasibility Study of Wide Bandgap Devices for Parallel Hybrid Wireless Charging Systems	Tiwari , Gyanendra ; KARNEDDI, HARISH; Ronanki, Deepak *; Dekka, Apparao	2.35 PM
3	343	Influence of Charging-Pad Design Parameters on Self-Inductance Variation with Air-Gap and Coupling Coefficient for IPT in Low Clearance EVs	Prasad, Kavita Kiran*; Agarwal, Vivek	2.50 PM
4	230	LCC-LCC Compensation based Dual Active Bridge Bidirectional WPT for Electric Vehicle Application	R, Narayanamoorthi*; Venkatesan, Murugan; A, Dominic Savio; C, Balaji	3.05 PM

Date: 14/12/2023
Slot 4 (2nd half)
Parallel Session 18 (S18): Cabin comfort, Charging behavior, Shared mobility, Decision Planning, and Pricing
Time: 2:00 pm to 3:30 pm
Session Chairs: ……………….
Venue: Meeting Room A

Sl no	Paper id	Paper title	Authors	Time slot
1	28	Application of Structural Equation Models to Analyse Barriers for Sustainable Adoption of Hydrogen Fuel Cell Electric Vehicles in India	Srinivasan, Karthik*; Kumar GVV, Ravi; TP, Anand	2.20 PM
2	41	Handling and Stability Comparison of Three-Wheeled Vehicle with	Suresh, Nilai*; Baviskar, Shreyas; Nikam, Ameya; Thakur, Sunil Kumar; Wagh,	2.35 PM

		Delta and Tadpole Design	Sachin	
3	60	DSM Based In-Vehicle User Cabin Setting	Venkat, Kavya*; P, Sugapriya; P, Sugapriya	2.50 PM
4	122	Improving cabin comfort with smart auto-flap HVAC control	T, Ganesh; SELVAM, Dinesh Kumar; Raut, Nidhi*; Lakshmanan, Radhakrishnan; Reddy, Ravindranatha	3.05 PM
5	202	IoT based Electric Vehicle Battery Parameters Monitoring for Battery Swapping	A, Dominic Savio*; Ramakrishnan, Venkatesan; balakrishnan, partheeban; I, William Christopher; Chandrasekar, Balaji; R, Narayanamoorthi	3.20 PM

Date: 15/12/2023
Slot 5 (1st half)
Parallel Session 19 (S19): Battery & Thermal Management System
Time: 9.30 am to 11.00 am
Session Chairs: ………………..
Venue: Session Hall 1

Sl no	Paper id	Paper title	Authors	Time slot
1	201	Optimal Design and Feasibility Study of Electric Vehicle Battery Thermal Management System	Amir, Mohammad*; Sadar, Aakash; Mohammad, Noor; Iqbal, Atif	9.50 AM
2	206	Improving Battery performance using OptisLang based Model Calibration of Newman P2D model.	challa, nowneswara reddy *	10.05 AM
3	267	Single-Particle model with thermal and Electrolyte dynamics for lithium-Ion cell	Jawle, Bharat Sanjay *; Selvakumar, Ashwin; Subramanian, Jagadeeswaran; Kumar, Nagaraj; Kumaran, Ajith	10.20 AM
4	269	Experimental and numerical studies on Battery temperature distribution.	Paramadayalan, Thiyagarajan*; Sarkar, Madhusree; Prasad, Chandrashekar; Gowda, Bore; Kothamasi, Sumithra Raju; Damodaran, Vijayakanthan	10.35 AM
5	296	A review on electric vehicle battery modeling methods	Hindustani, Mahommed Toufiq Mr.*	10.50 AM

Date: 15/12/2023

Slot 5 (1st half)

Parallel Session 20 (S20): Advanced Simulation, and Computational Intelligence tools (AI / ML / Data Analytics)

Time: 9.30 am to 11.00 am

Session Chairs:…………………..

Venue: Session Hall 2

Sl no	Paper id	Paper title	Authors	Time slot
1	216	Accelerating Automotive Design: Harnessing AI models for Efficient 3D Design and Development of Automobile Systems and Subsystems	ALTHI, TIRUPATHIA RAO*; Kothamachu, Vikram ; Pandita, Rhea	9.50 AM
2	242	3-D CFD Simulation of Oil Flow and Heat Transfer in an e-Drive Unit	Pasunurthi, Shyam Sundar*; Chen, Yawei; Maiti, Dipak	10.05 AM
3	248	Virtual Road Load Data Acquisition using MATLAB for Gearboxes	Patel, Hiralkumar G*; Thambala, Prashanth	10.20 AM
4	264	Mechanical Integrity Simulation of sense-lines in High Voltage Battery module used in Battery Electric Vehicle	Seshadri, Sriram*; GH, Shivaprakash ; Bhavsar, Tejas	10.35 AM
5	297	Role of Machine Learning Approach in the Assessment of Lithium-Ion Battery's SOC for EV Application	Thiyagarajan, Anushalini*; Sri Revathi, B; Sulthan, Sheik Mohammed	10.50 AM

Date: 15/12/2023

Slot 5 (1st half)

Parallel Session 21 (S21): Fast Chargers and Stations

Time: 9.30 am to 11.00 am

Session Chairs:…………………..

Venue: Session Hall 3

Sl no	Paper id	Paper title	Authors	Time slot
1	304	Analysis and Comparison of Partial Power Processing Converter Architectures for EV Fast Charging Station	Satapathy, Manoranjan*; Siddhartha, Vishwanatha; SHIVAKUMAR, GUDELLI; Edpuganti, Amarendra	9.50 AM
2	320	Analysis of Power Quality Issues in Fast Charging Stations on a Real-time	A. N, ARCHANA*; T, Rajeev	10.05 AM

		Simulator		
3	11	An Advance model of electric vehicle for off-board charger Evaluation	Joshi, Pawan*; Singh, Shanu; Saraf, Shrihari R	10.20 AM
4	191	Comparative Analysis of Motor and Battery Sizing and Scaling for EV Vehicles	Samani, Jenishkumar Rameshbhai*	10.35 AM

Date: 15/12/2023
Slot 5 (1st half)
Parallel Session 22 (S22): Autonomous/Software Defined Vehicles
Time: 9.30 am to 11.00 am
Session Chairs:…………………..
Venue: Session Hall 4

Sl no	Paper id	Paper title	Authors	Time slot
1	17	A Framework for Low-Cost Autonomous Mobility Platform to Retrofit Electric Vehicles	Karadakal, Veerabhadrappa*; Guptha B P, Sreekanta; Pareekutty, Nahas; G V V, Ravi Kumar	9.50 AM
2	36	Method For Identifying Movements of Vehicle Body	Thomas, Sivaprasad*; Bretzigheimer, Kai ; Prakash, Vishnu; A, Rajasekhar	10.05 AM
3	37	Protecting Passengers and Data: The Importance of an consistent process from TARA to testing.	Petschnik, Harald; Lecossec, Morgan; santiago, Prabhu*	10.20 AM
4	108	Security of Connected Cars that Promise Zero Accidents	Kirankumar N Tuppad*; Seela Sainath; Sandhya SC; A Subba Rao	10.35 AM
5	173	Adopting security and privacy risk-based engineering in designing and handling AI/ML based applications for road vehicles	venkatachalapathy, Sreenikethana k*	10.50 AM

Date: 15/12/2023
Slot 6 (2nd half)
Parallel Session 23 (S23):   Battery & Thermal Management System
Time: 11:30 am to 1:00 pm
Session Chairs:…………………..
Venue: Session Hall 1

Sl no	Paper id	Paper title	Authors	Time slot
1	50	A Feasibility Study of Utilizing Directly Recycled	Shelke, Manjusha V*; Melepurakkal, Amrutha;	11.50 AM

		LiFePO4 Cathodes for Second Life Usage in Stationary Applications	Chaturvedi, Vikash ; Bangal, Ojas ; Parasumanna, Ajeet Babu ; Bawase, Moqtik ; ; Karle, Ujjwala	
2	52	Development of Wire Bonding as a Joining Technique in Battery Packs	Singh, Urvashi*	12.05 PM
3	68	Passive Balancing of Battery using Coulomb Counting and Kalman Filter based SoC estimation	Kulkarni, Manoj R*	12.20 PM
4	73	Passive Cell Equalization & State of Charge Estimation using Coulomb Counting Approach	Khamari, Sadhana S*; Gaikwad, Anushka P.; Patil, Apeksha; Argade, Sachin; MULLA, AABID CHANDBASHA	12.35 PM
5	116	Impact of fast charging on life of EV batteries – battery thermal considerations	DAS, SANJIB KUMAR*; Sahoo, Suman	12.50 PM

Date: 15/12/2023
Slot 6 (2nd half)
Parallel Session 24 (S24): Advanced Simulation, and Computational Intelligence tools (AI / ML / Data Analytics)
Time: 11:30 am to 1:00 pm
Session Chairs:…………………..
Venue: Session Hall 2

Sl no	Paper id	Paper title	Authors	Time slot
1	172	Active Cell Balancing and SOC estimation using coulumb counting in Python	Shinde, Akshay N *; Ankushe, Rahul; Kulkarni, Aditi ; Chounde, Shravika ; Jadhav, Bhushan	11.50 AM
2	302	Electro-thermal model using advanced ECM approach for automotive application.	Kushwaha, Sudhir K*; Kant, Shubham; Poreddy, Kambi Reddy; Garg, Manish	12.05 PM
3	312	Explicit Dynamic Optimization for Battery using Equivalent Static Load method (ESLM)	Raj, Saravanakumar*; Subramaniam, Anand; Roffe, Cedric	12.20 PM
4	313	ELECTRIC MOTOR COPPER WINDING STIFFNESS CALCULATION METHOD BY FEA APPROACH	SIVASANKAR, SOMASUNDARAM*; SUBRAMANIAM, ANAND; Ruello, Maxime	12.35 PM
5	314	Life estimation of power	Sampath, Dhinesh Babu*;	12.50 PM

		electronic components in Electric Vehicle for vibration loads	Subramaniam, Anand; Rodrigues, Victor	

Date: 15/12/2023
Slot 6 (2nd half)
Parallel Session 25 (S25): Standards, Regulations, Policies & Circular Economy
Time: 11:30 am to 1:00 pm
Session Chairs:…………………..
Venue: Session Hall 3

Sl no	Paper id	Paper title	Authors	Time slot
1	8	EMC test challenges of CASE vehicles	Kothari, Manish*	11.50 AM
2	78	General Electric Testing: Simulate and Test Possible Failures of Vehicle Electric System	Kothari, Manish*; JAIN, LAVISHA; RASEKAR, MAYUR SURESH; VERMA, RAJNISH	12.05 PM
3	222	Powering the Future: Harnessing an Ecosystem Approach to Drive Electric Vehicle Adoption	Ravuri, Spurthi*; NC, Thirumalai; VENUGOPAL., SHANKAR	12.20 PM
4	197	India EV Energy Ecosystem – Challenges & Future Roadmap	Sivakumar, Vinodh Prabu*; Chandran, Navaneetha krishnan; Ramaswamy, Sriram	12.35 PM
5	327	Impact of Decarbonization Policies on Electric Vehicle Integration and Carbon Emission: A Singapore Case Study	AMRAN, MUHAMMAD FAHMI; Dharan, Thinesh; Sivaneasan, Bala Krishnan B*; Klooster, Rens ten; Salet, Tijmen; Rathore, Akshay Kumar; Chakrabarti, Prasun	12.50 PM

Date: 15/12/2023

Slot 6 (2nd half)

Parallel Session 26 (S26): Autonomous/Software Defined Vehicles

Time: 11:30 am to 1:00 pm

Session Chairs:…………………..

Venue: Session Hall 4

Sl no	Paper id	Paper title	Authors	Time slot
1	35	A SYSTEM INTEGRATOR PERSPECTIVE FOR NAVIGATING THE FUTURE OF MOBILITY THROUGH SOFTWARE-DEFINED VEHICLES	Vinod, Venkateswaran*; Guptha, Sreekanta; Soman, Amit	11.50 AM
2	177	Accelerating the development of Software Defined Vehicles through Innovative Collaboration across the Industry	Rao, Varada Prashant*; VENUGOPAL., SHANKAR	12.05 PM
3	273	The Practicalities of Automotive Software Safety Analysis	Chandran, Deepu*	12.20 PM
4	290	Financial Impact on Indian automotive Industry for transition from IC Engine based to EV based technology	MALIK, VARUN*; Vashist, Devendra	12.35 PM
5	250	An Electric Vehicles Based Virtual Inertia Control for Frequency Support of Low-Inertia Microgrid	Misra, Priya*; Saxena, D.; RATHOR, SUMITKUMAR K	12.50 PM