

Tuesday 17 November 2026 · Bengaluru, India

09:30 - 10:15 Registration and Welcome Refreshments

OPENING	10:15 - 10:25	Opening Ceremony and Welcome Speakers to be announced
KEYNOTE	10:25 - 10:55	Opening Keynote Speaker and title to be announced · includes questions
10:55 - 11:15	Morning Break	

Session 1 · 11:15 - 12:35

Time	1A – Surrogate Modelling with Machine Learning 1	1B – System Modelling and Simulation 1	1C – Computational Fluid Dynamics
11:15	AI-Assisted Simulation Workflow for Power Integrity Optimization in Automotive Electronics <i>Ramcharan Teja Budaraju · MOBIS India Limited</i>	Design and Optimization of V2G-Enabled Microgrids Using Simulation and Machine Learning Techniques <i>Rehan Raza Mohammed · Gamma Technologies</i>	A CFD Based Parametric Study to Design and Evaluate a Forward Curved Centrifugal Blower <i>N Ganesh · Climate ETC Technology Services Private Limited</i>
11:35	Accelerate Pedestrian Safety: A Surrogate Modeling Approach for Head Injury Criterion Evaluation <i>Bhaskar Ramagiri · Dassault Systemes India Private Ltd.</i>	1D Thermal Modelling Framework for MCCBs: Simulation and Experimental Validation <i>Charan Kumar M R · Schneider Electric</i>	Simulations of Hammerhead Space Vehicle Using GPU-Accelerated Large-Eddy Simulation <i>Vinayak Rajan · Cadence Design Systems</i>
11:55	Field Surrogates for Transient Impact Simulation: A Crash Optimization Study <i>Anuj Shukla · ESTECO Software India Pvt. Ltd.</i>	Digital Twin-Enabled Modelica Framework for Investigating Condenser Coil Blockages and Operational Anomalies in HVAC Systems <i>Elan T · Climate ETC Technology Services Private Limited</i>	Advanced SPH with Higher-Order Multiphase Models for Accurate Gearbox Lubrication and Power Loss Analysis <i>Shriram Krishna · dive CAE</i>
12:15	Physics AI for Crashworthiness - Hype and Reality <i>Suri Bala · d3VIEW Inc.</i>	Identification of Dominant Design Parameters for Gearshift Quality in Manual Transmissions Using Multibody Simulation <i>Anubhav Singh · Cadence Design Systems</i>	Fast Optimization for Vehicle Exterior CFD Performance Using an AI Model <i>Arul Ganesan · Detroit Engineered Products</i>

12:35 - 14:05 Lunch and Networking

Session 2 · 14:05 - 15:25

Time	2A – Surrogate Modelling with Machine Learning 2	2B – System Modelling and Simulation 2	2C – Acoustics
14:05	AI & ML Enhanced CAE Simulation for Next Generation Engineering Predictions <i>Hiten Chauhan · Emerson Innovation Center Pune</i>	A Novel Electronic Valve Actuation System for Gas-Exchange Optimization in SI Engines: A Model-Based Co-Simulation and Experimental Validation Approach <i>Dr. Ajay Kumar Satalagaon · Gamma Technologies</i>	Comparative Analysis of Empirical Models for Acoustic Barrier Diffraction Against Simulated and Experimental Results <i>Isha Kulshrestha · Lovely Professional University</i>
14:25	Accelerating Automotive Structural Design Exploration via Deep Latent Manifold Learning <i>Bhavaneesh Athikary · Detroit Engineered Products (DEP)</i>	Impact of Busbar Phase Arrangement on Thermal Performance in Low-Voltage Switchgear <i>Rama Krishna Tupakula · Schneider Electric</i>	A CFD-Acoustic Workflow for Flow-Induced Audible Noise Prediction in a Throttle Control Valve <i>Akash Gupta · Oceaneering</i>
14:45	Real-Time HEV Energy Management via an ECMS-Trained ML Surrogate <i>Ashish Chandna · Gamma Technologies</i>	A Physics-Based Digital Twin of an Axial Fan for Real-Time Anomaly Detection and Control <i>Abhijith Balakrishna · Climate ETC Technology Services Private Limited</i>	A Vibro-Acoustic Simulation Methodology for HVAC Units <i>Ashish SV · Lennox India Technology Center Private Limited</i>
15:05	Integrating Deep Learning in the Design and Analysis of a Steering Knuckle Utilizing Design of Experiment <i>Shravan Bhadoria · Shiv Nadar University</i>	From Concept Generation to Performance Prediction: A Unified Workflow for Accelerated Design Exploration Using Generative AI and Geometric Deep Learning <i>Nachiket Patil · Siemens</i>	Study of Acoustic Transmission Loss for Nacelle Thrust Reverser Blocker Door <i>Bhareth Kumar Veeranan Chinnachamy · The Boeing Company</i>

Session 3 · 15:25 - 16:45			
Time	3A – Surrogate Modelling with Machine Learning 3	3B – Simulation Governance and Credibility	3C – Thermal Management
15:25	Full-Vehicle Multiphysics ADAS Co-Simulation for Euro NCAP Active Safety Protocol Validation with Vehicle Dynamics and 3D Animation <i>Dr. Jaywant Mahajan · eShocan LLC</i>	Simulation Credibility Using Generative AI and ML <i>Krishna Mohan Siddu · TATA Consultancy Services Limited</i>	Innovative Thermal Management System for a Vehicle Head-Up Display (HUD) Assembly Using CFD Simulation Techniques <i>Vinay Kumar · Mobis India Ltd.</i>
15:45	Deep Convolutional Neural Networks for Predicting 3D Fluid Flows <i>Panduranga Ningaiah · Tata Consultancy Services</i>	Enabling Trusted Digital Twins Through Verification, Validation, and Continuous Credibility Assessment <i>Sridhar K · Schneider Electric</i>	AI-Driven Modeling of Coolant Channel Flow and Thermal Behavior for Battery Module Design <i>Amit Jadhav · Dassault Systemes India Private Ltd.</i>
16:05	A Hybrid Machine Learning and Physics-Informed Neural Network Approach for Residual Wave Height Prediction of Clutch Carrier Plate <i>veerababu Gangiseti · ZF India Technology Center</i>	SAR Certification & Compliance Through Virtual Testing and Simulation <i>Nikhilesh Neelu · UL India Pvt. Ltd.</i>	Design Validation of an Electric Vehicle Busbar Carrier Snap-Fit Through Nonlinear Analysis and Sensitivity Evaluation <i>Meenupriya O S · Volvo India Pvt Ltd</i>
16:25	Engineering Intelligence in Industrial Practice: The Next Frontier in Revolutionizing Automotive CAE <i>Sudhir Padaki · Neural Concept</i>	Verification of an Agent-Executed Study of a Vented LED Headlamp Using CHT and Thermo-Mechanical Analysis <i>Aniket Kulkarni · Curlscape Solutions</i>	Coupled Electrochemical-Thermal-Decomposition Modelling of Thermal Runaway in 18650 NCA Cells: A Chemistry-Specific, DSC-Validated Approach for EV and Grid-Storage Safety <i>Roshin Mohan A · UL India Pvt. Ltd.</i>
16:45 - 17:10 Afternoon Break			
Session 4 · 17:10 - 18:30			
Time	4A – Physics-Informed Machine Learning	4B – Simulation for Certification and Qualification	4C – Workshop / Discussion
17:10	Physics-Informed Graph Neural Networks: A Dual-Pipeline Superposition Approach for Predicting Contact Pressures at the Bearing-Housing Interface <i>Arun Balakrishnaswamy · ZF India Technology Center</i>	Development and Validation of a Simulation-Based Seismic Qualification Framework for Mission-Critical Cooling Equipment Using Response Spectrum Analysis <i>Dipankar Bora · nVent</i>	Workshop / Discussion Topic and format to be announced
17:30	Estimation of Pressure Drop in Porous Media Using Physics Informed Neural Networks <i>Vidyadhar Karlapalem · TATA Consultancy Services Limited</i>	Development of Refrigeration Cycle Based AEDM Framework for Certification of HVAC Systems <i>Thiyagarajan Paramadayalan · UL Solutions</i>	
17:50	Physics-Backed Neural Networks for Motor Internal Temperature Estimation <i>Praveen Kumar · ABB GISPL</i>	Simulation in Life Safety Products <i>Boobalan Srinivasan · Honeywell Technology Solutions Lab Pvt PTD</i>	
18:10	Physics Based Machine Learning for Analyzing Multifunctional Film Fabric Laminate <i>Shravan Bhadoria · Shiv Nadar University</i>	Numerical Impact Simulations of Handheld Medical Devices <i>G R Krishna Chand Avatar · GE Healthcare</i>	
18:30	Networking Reception and Snacks		

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KEYNOTE

10:15 - 10:45

Day 2 Opening Keynote

Speaker and title to be announced · includes questions

10:45 - 11:05 Morning Break

Session 5 · 11:05 - 12:25

Time	5A – Agentic AI and LLMs in the CAE Workflow	5B – Composite and Aerostructures	5C – Pressure Systems
11:05	Agentic Simulation Workflows: Orchestrating Multi-Physics CAE with LLM Agents, and What It Takes to Trust Them <i>Aniket Kulkarni · Curlscape Solutions</i>	AI-Augmented Simulation Framework for Structural Evaluation of Thermoplastic Conversion in Aerospace Nacelle Fan Cowl <i>Shashidhar Shivarudrappa · Collins Aerospace</i>	Non-Metallic Centertube Collapse Prediction Using Eigenvalue Buckling <i>Aishwarya Chaudhari · Atmos Filtration (Pune)</i>
11:25	Traceable Reuse of Engineering Knowledge Using Graph-Based Retrieval-Augmented Generation <i>Vijay Nath Sivaraj · Code Product Solutions</i>	Study on the Influence of Ply Thickness, Ply Sequence on the Strength of Inner Barrel of Nacelle Inlet Structure <i>Karthikeyan Sanker · The Boeing Company</i>	Predicting Bearing Seal Performance: Simulation Study on Water Ingress and Seal Deformation <i>Priyanka Badge · SKF Technologies India Pvt. Ltd.</i>
11:45	From Theory to Transformation: Democratizing Simulation, Digital Engineering, and Automation for the Next Generation of Engineers <i>Sahil Sura · Ansys Software Pvt. Ltd.</i>	Simulation and Testing of Self-Deployable Composite Tube Hinges for Spacecraft Applications <i>Malarvizhi Sn · U. R. Rao (ISRO) Satellite Centre (URSC)</i>	A CFD-Based Methodology for Predicting Soft Seal Temperatures in Cyclic High-Pressure Steam Relief Valve Applications <i>Narendra Kulkarni · Emerson</i>
12:05	AI Intelligence for Adaptive CAE Model Build <i>Prakash Krishnaswamy · Xitadel Group</i>	Study of Cabin Pressurization Effects on Airframe Panel Sound Transmission Behaviour Using Vibroacoustic Simulations <i>Raja Shekhar DANDANAYAKULA · Airbus</i>	Conjugate Heat Transfer and Structural Analysis of a Twin Screw Compressor <i>Abhishek Ballani · Simerics, Inc.</i>

12:25 - 13:55 Lunch and Networking

KEYNOTE

13:55 - 14:25

Afternoon Keynote

Speaker and title to be announced · includes questions

Session 6 · 14:25 - 15:25

Time	6A – Structural Mechanics 1	6B – Simulation in the Design Phase	6C – Coupled and Transient Simulation
14:25	The Last Engaged Thread Failure Analysis for Cylinder Block to Main Bearing Cap Joint Using Detailed Thread Modelling Approach <i>Ravi Upadhyay · Cummins - CTCI - PSBU</i>	A Feature-Based Stiffness Matrix Transformation Method for Accelerating Finite Element Design Iterations <i>Adarsh Gupta · Oceaneering</i>	A Hybrid Simulation and Artificial Intelligence Framework for Optimizing Pellet-Based Large-Scale Additive Manufacturing <i>Sushree Kshirabdhii Tanaya · Collins Aerospace</i>
14:45	A Study on Topology Optimization of Multi-Plate Bolted Joints with Trade Studies on the Influence of Bolt Layout, Preload, and Geometry <i>Karthikeyan Vairavan · The Boeing Company</i>	Accelerating Lightweight BIW Development: An Intelligent Framework for Rapid Concept-to-Engineering Maturity <i>Tushar Hursad · Tata Motors Limited</i>	Modeling Supercritical Steam and Flashing Flow Phenomena in Pressure Relief Valves: Industrial Applications of CFD <i>Narendra Kulkarni · Emerson</i>
15:05	Numerical Investigation of Wire Insertion Mechanics in Insulation Displacement Connectors <i>Akshat Sankhere · ENNOVI GLOBAL Services Private Limited</i>	Reducing Concept-to-CAE Iteration Through Early Structural Decision Support <i>Kingsly Jasper · SIEMENS PLM</i>	Numerical Prediction of Transient Acoustic Radiation from High-Speed Projectile Firing <i>Balaji S · SOLIZE India Technologies Private Limited</i>

15:25 - 15:50 Afternoon Break

Session 7 · 15:50 - 17:10			
Time	7A – Structural Mechanics 2	7B – Optimisation and Manufacturing Process Simulation	7C – Electromagnetics and Multiphysics
15:50	Accelerating Marine Foundation Design and Retrofitting Using Modal-Validated Static Iterations <i>Sai Sabarish M · Warship Design Bureau, Indian Navy</i>	Advanced Simulation and Automating Design Optimization with KBE and CAD/CAE Integration <i>VIJAYA KUMAR THANGAMALAI · Robert Bosch Engg & Business Solutions Ltd</i>	Structural Response of Thin Structures to Induced Electromagnetic Loads with SIMULIA <i>Siva Sai Krishna Puranam · Dassault Systemes India Private Ltd.</i>
16:10	Designing Long Shafts for Power Transmission Using Simulation-Based Analysis <i>vidyaprakash G S · LMW</i>	Scalable AI Framework for Automotive Lighting Data Extraction and Performance Evaluation <i>Prem Chinna Polamada · MOBIS India Limited</i>	Numerical Analysis and Experimental Validation of Joule Heating in an Electrical Socket Assembly Using Electromagnetic-Thermal Co-Simulation <i>Venu Gopal · Honeywell Technology Solutions Lab Pvt PTD</i>
16:30	Strain-Life Evaluation of Linear Damage Rule and Double Linear Damage Rule under Random Vibration Loading <i>Nandakishore V B · Trane Technologies</i>	Optimization in Forging Process for Cost & Energy Saving <i>Abhijit Kumbhar · ARAI</i>	Effect of Solar Radiation on the Temperature and Current Carrying Capacity of Ground Level and Submerged High Voltage Cables <i>Pradip Kshirsagar · 3D Engineering Automation Pvt. Ltd.</i>
16:50	Predictive Structural Impact Simulation of Injection-Moulded PP-Based Glass Fiber-Reinforced Thermoplastic Components Accounting for Fiber Orientation Tensors and Weld-Line Effects <i>Rajat Kumar · Cadence</i>	AI-Guided Structural Hydrogen Storage Design Using Composite Materials for Next-Generation Zero-Emission Aircraft <i>Sushree Kshirabdhhi Tanaya · Collins Aerospace</i>	Effect of Duct Assembly Dislocation in an Annular Linear Induction Pump <i>Avijit Chakraborty · IGCAR</i>
PANEL	17:15 - 18:15 Plenary Panel Discussion Panellists, chair and topic to be announced		
18:15 - 18:25	Closing Ceremony		

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