



**ATCON 2: ICAMAE 2023**  
**28<sup>th</sup> to 30<sup>th</sup> November 2023**

## **SESSION SCHEDULE**

**Day 1: 28<sup>th</sup> November 2023**

**Session I**

**Track 1: Material Science**

**Venue: Seminar Hall 1, Learning Center**

<b>Manuscript ID</b>	<b>Time</b>	<b>Title</b>
ICAMAE-2023-1-1	11.15 AM to 1.15 PM IST	<b>Material substitution &amp; selection for carbon fibre filament winding in NGV components</b> Upasana Panigrahi, Chandrasekhar Dash
ICAMAE-2023-1-2		<b>Upcycling Discarded Flowers into Activated Carbon Particles for supercapacitors</b> Sahith Battula, Shuchi Tiwari, Kiran Kumar Namala
ICAMAE-2023-1-3		<b>Properties and performance of natural fibre reinforced epoxy hybrid bamboo composites</b> Roopesh Kumar, Rajesh Purohit, Abhijeet Ganguly, Santosh Sharma, Anurag Namdev, Vikky Kumhar
ICAMAE-2023-1-4		<b>Studies on Effect of Laminate Thickness and Hole Diameter of GFRP/Epoxy Composite Subjected to Open Hole Tensile Test</b> Rajesh M, Hemavathy S, Sunith Babu L, Sampath S Arahunashi
ICAMAE-2023-1-5		<b>Enhancing Durability in GFRP/Epoxy Panels: A Study on Repair Techniques in Open Hole Test</b> Sunith Babu L, Pradeep Kumar K V, Girish V Kulkarni, Rajesh Mathivanan
ICAMAE-2023-1-6		<b>Sensitivity Studies on Polyvinylidene Fluoride-Trifluoroethylene / Zinc Oxide Nanocomposites Sensor</b> Anjana Jain, Enoos Dange
ICAMAE-2023-1-7		<b>Experimental Studies on Microfibril Extraction and Fabrication of Ecofriendly Fiber Reinforced Composites</b> J. Ronald Aseer, K. Sankaranarayananasamy, S. Renold Elsen, Karthik Babu NB, P. Tamilchelvan



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**Track 2: Production Engineering**  
**Venue: LHE 101, Learning Center**

Manuscript ID	Time	Title
ICAMAE-2023-2-1	11.15 AM to 1.15 PM IST	<b>Influence of Different Arc Modes on the Mechanical and Corrosion Properties of SS 316L Using Wire Arc Additive Manufacturing</b> Karpagaraj Anbalagan, Asha Raveendran, Bathula Suseela, Magar Raturaj Tanaji, Shyam Sunder Singh, Zawed Alam
ICAMAE-2023-2-2		<b>Effect of Varying Filler Paste's Mixing Ratio on the Tensile Strength and Surface Deformation of Al-64430 Dip Brazed Joints</b> Siddharth Garg, Qasim Murtaza
ICAMAE-2023-2-3		<b>Parametric Optimization of Friction Stir Welding for Electrical Conductivity of Aluminium Joints Using ANN Approach</b> Maneesh Tewari and Devaki Nandan
ICAMAE-2023-2-4		<b>Analysis of Cutting Performance in Dry Turning using Surface Textured Tools: Quantitative analysis</b> Rima Singha Roy, Sushmita Dash, Trupti Ranjan Mahapatra, Punyapriya Mishra, Debadutta Mishra
ICAMAE-2023-2-5		<b>Biocompatibility &amp; Wear Evaluation of Mg-6Zn-4Cu-2Ca-1Mn alloy for Biomedical Implants</b> A. Godwin Antony, C. Saravanan
ICAMAE-2023-2-6		<b>Performance of Bio-Oil Based Spray Cooling during AISI 316 SS Turning Operation</b> Smita Samantaray, Manoj Ukamanal, Purna Chandra Mishra
ICAMAE-2023-2-7		<b>Shot Peen Forming of Al5083 Sheets and Study their Metallography and Mechanical Properties</b> K. Chandra Sekhar, P. Srinivas, K.M.N.V.S.A. Siva Ram, Ch.N.V.S. Swamy, S.Vivekananda



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**Track 3: Design Engineering**  
**Venue: LHE 102, Learning Center**

Manuscript ID	Time	Title
ICAMAE-2023-3-1	11.15 AM to 1.15 PM IST	<b>Selection of Vehicle Tires using Multi-Attribute Decision Making Methods</b> Pratik Bendre, Avinash Kamble
ICAMAE-2023-3-2		<b>Adoption of IOT enabled intelligent Agricultural irrigation system</b> Denesh L, Ahmed Mujtaba Mattoo, Abhishek Rudra Pal
ICAMAE-2023-3-3		<b>Design and implementation of Low-power High-speed 8-bit KSA using 6T-Hybrid XOR-cell for IoT-Applications</b> Venkat Subba Rao Manchala, Ramana Murthy. G, Satyajeet Sahoo
ICAMAE-2023-3-4		<b>Design of High-speed Area efficient 16-bit KSA implemented by novel 6T-Hybrid XOR-cell for ALU-Processor Applications</b> Venkat Subba Rao Manchala, Satyajeet Sahoo, Ramana Murthy G
ICAMAE-2023-3-5		<b>Forensic Report Management for Digital Evidence using Block chain Technology</b> Gudapati Ramyasri, A Jagadish, CH. Sai Prasanth, A.S. Sowjanya, S. Manjuna Priya
ICAMAE-2023-3-6		<b>Cyber Threat Mitigation: Uncovering Phishing URLs using Machine Learning Models</b> Mano Paul P, Berin Jeba Jingle I, Diana Jeba Jingle I
ICAMAE-2023-3-7		<b>Numerical Investigations on Immersion Cooling of Lithium-ion Batteries using Different Coolants</b> Ajay G, Krishna R, Mythirayan B, Vikram T S



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**Session I**

**Track 4: Fluids and Thermal Engineering**

**Venue: LHE 103, Learning Center**

<b>Manuscript ID</b>	<b>Time</b>	<b>Title</b>
ICAMAE-2023-4-1	11.15 AM to 1.15 PM IST	<b>A Comprehensive Review of Renewable Energy Sources, Sustainability Challenges, and Climate Change Mitigation</b> Indrasena Reddy, Hemavathy S, Shreya Sunil
ICAMAE-2023-4-2		<b>Developing the green energy solution using piezoelectric transducer: A case study of the roadway of university</b> Upasana Panigrahi, Subhasini Muduli
ICAMAE-2023-4-3		<b>Application of Tire Pyrolysis oil as alternative fuel in diesel engines: A Review</b> Deenoo Pawar, Sandeep Jaiswal
ICAMAE-2023-4-4		<b>Experimental investigation effect of SUT dimensions on the power production of a solar updraft tower power plant</b> Khadersab Adamsab, Haitham Abdullah Khamis AlAdwani, Badar Said Mansoor Alnaabi, Ibrahim Khalfan Alharrasi
ICAMAE-2023-4-5		<b>CFD Analysis of Solar Chimney power generation</b> Khadersab Adamsab, Abdulhamid Hamdan Al-Hinai, Eugene Vega
ICAMAE-2023-4-6		<b>Effect of Inlet Velocity and Temperature on the Performance of a Converging-Diverging Type IRS Device: A Numerical Exercise</b> Maheswar Rout, Suman Ghosh, Jnana Ranjan Senapati
ICAMAE-2023-4-7		<b>IOT Based Remote Monitored and Operated Energy Efficient Multipurpose Greenhouse</b> Suresh N S, Padmavathy N S, Menaga. D, Guna G, Mohit Hemanth Kumar



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**Session I**

**Track 5: Aerospace Engineering**

**Venue: Seminar Hall 3, Learning Center**

<b>Manuscript ID</b>	<b>Time</b>	<b>Title</b>
ICAMAE-2023-5-1	11.15 AM to 1.15 PM IST	<b>Numerical Investigation of Serrated Blended Winglet Aerodynamic Performance</b> Mohamed Hussain M F, Vishnu Kumar G C
ICAMAE-2023-5-2		<b>Modelling and Simulation of Jet Impingement Cooling of a Solid Surface Based on State Space Method</b> Smita Samantaray, Manoj Ukamanal, Purna Chandra Mishra, Sasmita Bal
ICAMAE-2023-5-3		<b>Packet Error Rate Analysis of IEEE 802.11p Physical Layer for V2V Communication in VANETs</b> Mahabub Subhani Pathan, Annapurna K
ICAMAE-2023-5-4		<b>Autonomous Multi-Rotor UAVs: A Holistic Approach to Design, Optimization, and Fabrication</b> Aniruth A, Nitteesh M, Gokulraj M, Jothika K, Venkatram K, Harshith G, Shristi S, Chirag Satpathy, Anushka Vani, Jonathan Spurgeon
ICAMAE-2023-5-5		<b>Square Cylinder Aerodynamics: Insights from Aeroacoustic Analysis</b> Mahesh Nakka, Basanta Kumar Rana, Atal Bihari Harichandan
ICAMAE-2023-5-6		<b>Thermo Structural Analysis of Nozzle Sub-assembly with Composite Liners for GAGANYAAN Mission</b> Arun Kumar M, Ajith M, Kiran Kumar B, Thomas Kurian, Satheesh Kumar N
ICAMAE-2023-5-7		<b>Numerical simulation of Cascade Fins with Varied Chord Ratios of Planar Members at higher Angle of attack in Subsonic Regime</b> Pradeep Singh Bisht, Vipin Yadav, Ganapati N. Joshi



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**Session II**

**Track 1: Material Science**

**Venue: Seminar Hall 1, Learning Center**

<b>Manuscript ID</b>	<b>Time</b>	<b>Title</b>
ICAMAE-2023-1-8	2.00 PM to 4.30 PM IST	<b>Analysis of Mechanical Responses of Fly Ash Filled GFRP Composite Plates using Finite Element Method</b> Anisha Ekka, Trupti Ranjan Mahapatra, Pradip Kumar Sahu, Punyapriya Mishra, Debadutta Mishra
ICAMAE-2023-1-9		<b>Stress Analysis of Carbon Fiber and Graphene Reinforced Polyurethane Polymer Composite</b> Deepa Ahirwar, Amit Telang, Rajesh Purohit, Anurag Namdev, Ashish Kumar
ICAMAE-2023-1-10		<b>Characterization and corrosion behavior of Al and ternary Al-Zn-Mg alloy produced from beverage can scraps in seawater</b> Muazu Abubakar, Muhammed Abdurashed Onimisi, Abubakar Baba Aliyu, Syed Alay Hashim
ICAMAE-2023-1-11		<b>Charge Transport in Semiconductor Heterogeneous Structure at Oxide Interface by Inserting a Functional Layer</b> Aditi Kalsh, Sandeep Dhariwal, Vijay Kumar Lamba
ICAMAE-2023-1-12		<b>In-situ repair of worn carbon steel components using a novel surface engineering approach</b> Husayn Izneen, Alexander Galloway, Athanasios Toumpis
ICAMAE-2023-1-13		<b>Numerical and experimental investigation of a high strength steel for fracture mechanics material property assessment</b> Monisha Manjunatha, Yevgen Gorash, Donald Mackenzie, Tugrul Comlekci
ICAMAE-2023-1-14		<b>Design and Optimization of Bio-inspired Light-weight composite Tubes</b> Chris Cameron, David Nash



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**Session II**

**Track 2: Production Engineering**

**Venue: LHE 101, Learning Center**

<b>Manuscript ID</b>	<b>Time</b>	<b>Title</b>
ICAMAE-2023-2-8	2.00 PM to 4.30 PM IST	<b>Study of Mechanical and Tribological properties on different Aluminium based reinforced Metal Matrix Composites developed by Stir Casting Technique</b> Abhilash S G, Arpitha G R, Madhusudhan M
ICAMAE-2023-2-9		<b>Enhancing Micro EDM Performance through Machine Learning-Based Tool Wear Rate Prediction and Optimization</b> Sahil Raj, P.Mano Paul, I. Diana Jeba Jingle, I. Berin Jeba Jingle, Sasmitha Bal
ICAMAE-2023-2-10		<b>Dissimilar Friction Stir Welding (FSW) of Aluminium Alloys to Copper</b> Gihad Karrar, Alexander Galloway, Athanasios Toumpis, Hongjun Li
ICAMAE-2023-2-11		<b>A microstructural and mechanical property examination of stainless steel 15-5PH produced using wire + arc additive manufacturing</b> J Iain Sword, Alexander Galloway, Athanasios Toumpis
ICAMAE-2023-2-12		<b>Numerical modelling as a predictive tool to reduce defects in refill friction stir spot welded joints</b> J. Draper, S. Fritsche, S.T. Amancio-Filho, A. Galloway, A. Toumpis
ICAMAE-2023-2-14		<b>Attitude towards digital dexterity-key to digital edge in manufacturing</b> Rashmi Prasad, Pratima Verma, Hritika Bhagat
ICAMAE-2023-2-15		<b>Machine Behaviour</b> Anoop Kumar Srivastava



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**Session II**

**Track 3: Design Engineering**

**Venue: LHE 102, Learning Center**

<b>Manuscript ID</b>	<b>Time</b>	<b>Title</b>
ICAMAE-2023-3-8	2.00 PM to 4.30 PM IST	<b>Safety Stock (Inventories) Estimation in CPG Industries - Application of Machine Learning Techniques</b> Kshitij Mathur, Sridhar T, Rakshit Govind T
ICAMAE-2023-3-9		<b>Design Optimization of Independent Secondary Lock to Avoid Failure in Automotive Connectors</b> Jagadeesh Patil, J Sharana Basavaraja
ICAMAE-2023-3-10		<b>Numerical Investigation on Hydrophobicity of the Non-uniform Triangular Rough Surfaces Using 2D Lattice Boltzmann Method</b> Ganesh Sahadeo Meshram
ICAMAE-2023-3-11		<b>Topology Optimization and Static Structural Analysis of Modified Rigid Flange Coupling using NX</b> Naresh Kaushik, Anoj Meena, Harlal Singh Mali
ICAMAE-2023-3-12		<b>Design and Development of Bidirectional Converter Based EV Charging Station</b> Suresh N S, Padmavathy N S, Menaga D, Joseph Godfrey A, Mohit Hemanth Kumar
ICAMAE-2023-3-24		<b>Design of a reinforced rectangular vessel for hydrogen storage in heavy-duty fuel cell vehicles</b> Tinashe Mazarire, Alexander Galloway, Athanasios Toumpis
ICAMAE-2023-3-13		<b>Comparative Analysis of Low Power SRAM Cells using Gated Vdd and MTCMOS Techniques</b> Sandeep Dhariwal, Aby K Thomas, Reeba Korah, Manasi





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**Session II**

**Track 4: Fluids and Thermal Engineering**

**Venue: LHE 103, Learning Center**

Manuscript ID	Time	Title
ICAMAE-2023-4-8	2.00 PM to 4.30 PM IST	<b>Two-Phase Multiplier and slip analysis for a circular orifice to determine flow coefficients</b> Santosh Kumar Panda, Kali Charan Rath, Balaji Kumar Choudhury
ICAMAE-2023-4-9		<b>CFD simulation of closed loop pulsating heat pipe with graphene</b> Aruna Veerasamy, Kanimozhi Balakrishnan, Sirajunnisa Abdul Razack, Godwin Antony Arockiaraj
ICAMAE-2023-4-10		<b>Kinetics Study for Adsorption of Crystal Violet Over Rice Husk Activated Carbon</b> Nurudeen Salahudeen and Abdulkareem Alhassan
ICAMAE-2023-4-11		<b>CFD Study on Solar Dryer with different wall configuration for Tropical Climate</b> Tanmay Mitra, Nilotpala Bej, Atal Bihari Harichandan
ICAMAE-2023-4-12		<b>Enhancing Latent Heat Energy Storage Systems with Fins and NanoAl<sub>2</sub>O<sub>3</sub>-Enriched Phase Change Materials</b> Krishna Raj V, Baiju V, Asif sha A, Adheena T, M. Behzad Rajace, Ajay Narayan
ICAMAE-2023-4-13		<b>Flow Characteristics of a Modified Square Cylinder</b> Darshna Songara, Pritanshu Ranjan
ICAMAE-2023-4-14		<b>Cylinder Drag Reduction through Strategic Control Surface Implementation: A Computational Study</b> Sudarsan Gajula, Nilotpala Bej, Atal Bihari Harichandan



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**Session II**

**Track 5: Aerospace Engineering**

**Venue: Seminar Hall 3, Learning Center**

<b>Manuscript ID</b>	<b>Time</b>	<b>Title</b>
ICAMAE-2023-5-8	2.00 PM to 4.30 PM IST	<b>CFD Simulation of High Angle of Attack with Varying the Gap Ratio of Planner Members of Cascade Fins at Subsonic Flow</b> Bheem Singh, Vipin Yadav, Ganapati N. Joshi
ICAMAE-2023-5-9		<b>Computational Analysis of Cascade Fins with Tapered planform Planar Members over High Angles of Attack at Subsonic speed</b> Rajinder Singh, Vipin Yadav, Ganapati N. Joshi
ICAMAE-2023-5-10		<b>Aerodynamic Analysis of Wing with Protuberances (Humpback Whale Structure)</b> Rinisha T. Nikhade, Ganapati N. Joshi
ICAMAE-2023-5-11		<b>Computational Study on Effect of Free Stream Turbulence on Bio-inspired Corrugated Airfoil</b> Divyasharada N S, Vikas Kumar, Ganapati N. Joshi
ICAMAE-2023-5-24		<b>Comparative assessment of numerical models for the simulation of thermovibrational-driven solid particle accumulation phenomena in microgravity conditions</b> Balagopal Manayil Santhosh, Marcello Lappa
ICAMAE-2023-5-25		<b>The application of symmetrical motorised momentum exchange tethers for two-way Earth-Mars transportation</b> Shem S. Afonso, Matthew P. Cartmell
ICAMAE-2023-5-26		<b>Effect of Vertical and Horizontal Vibrations, Vessel Size and Layer Height on the Fluidization of Lunar Regolith</b> Peter Watson, Sebastien Vincent Bonnieu, Marcello Lappa



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**Session III**

**Track 1: Material Science, Aerospace, and Production Engineering**

**Venue: LHE 101, Learning Center**

Manuscript ID	Time	Title
ICAMAE-2023-1-15	9.00 AM to 11.00 AM IST	<b>Effect of doping on the J-V characteristics of Ga<sub>2</sub>O<sub>x</sub> and Ta<sub>2</sub>O<sub>x</sub> based memristors</b> N. Nithya, Srikanth Itapu
ICAMAE-2023-1-16		<b>Proportional Integral Derivative (PID) controller for smart structures</b> Gaurav Kumar, Amar Choudhary, Harinath Aireddy
ICAMAE-2023-1-17		<b>Effect of Deformation on Electrical &amp; Mechanical properties of SWCNT's</b> Vijay Kumar Lamba, Sankit Kassa, Sandeep Dhariwal, Lovleen Brar
ICAMAE-2023-2-20		<b>A recent review on mitigation strategies for control of air pollution</b> Mukesh Ahirwar, V. N. Bataria
ICAMAE-2023-5-21		<b>Artificial Intelligent based Space Travel to track the motion of Artificial Bodies and Human Health Monitoring using Augmented Reality</b> R. Shekhar, P. Mano Paul, Chetan J Shelke, MD Ajaz Ahmed, Mohit H
ICAMAE-2023-3-15		<b>Intelligent Autonomic Computing: Achieving Self-Optimization Through Autonomous Learning</b> R. Radha, P. Mano Paul, R. Shekhar, Mohit H
ICAMAE-2023-3-16		<b>Quantum ML Algorithm for Optimizing digital data using Enhanced Quantum Classifier Techniques in Learning Methods</b> P. Mano Paul, Utsav Pathak, Siddhartha Das, Saurabh Kumar, Rakshit Govind T
ICAMAE-2023-3-17		<b>Navigating Practical Uncertainties in Assembly Sequence Planning: A Perspective on Industry 4.0 Challenges</b> Chiranjibi Champatiray, MVA Raju Bahubalendruni, Golak Bihari Mahanta, Rabindra Narayan Mahapatra



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**Session III**

**Track 2: Design and Thermal Engineering**

**Venue: LHE 102, Learning Center**

<b>Manuscript ID</b>	<b>Time</b>	<b>Title</b>
<b>ICAMAE-2023-3-20</b>	9.00 AM to 11.00 AM IST	<b>The Role of Artificial Intelligence and Deep Networks in Health Care</b> Jahanara Shaik, Shekhar R, Chetan J Shelke
<b>ICAMAE-2023-3-21</b>		<b>A Model for Optimising Automobile Design based on Analysis of Consumer Preferences</b> Mihir Dash
<b>ICAMAE-2023-3-22</b>		<b>AI-Based RS Model for Monitoring and Mapping Environmental, Sustainable Landuse Landcover in the Framework of Smart City</b> Asha Rani N R, M Inayathulla
<b>ICAMAE-2023-3-23</b>		<b>Face Recognition Based Attentiveness Survey Model with Automated Attendance System Using Deep Learning</b> Chandana MN, Rupa Sravya B, Ramalakshmi K, Hemalatha Gunasekaran
<b>ICAMAE-2023-3-18</b>		<b>Accelerometer-based on-body sensor for Alzheimer’s patient monitoring</b> Ramana Murthy Gajula, Hima Bindu Katikala, Sevitha Sharon Bala Sunkara
<b>ICAMAE-2023-3-14</b>		<b>Smart City-Driven Enhancement of Bilirubinometer JM-105 Accuracy with Artificial Neural Network Error Correction</b> Anil Kumar Neelapala, Gnane Swarnadh Satapathi, Ranjan Kumar Mahapatra
<b>ICAMAE-2023-4-15</b>		<b>Development of Experimental Set up for Temperature Measurement on the Brake Disc of Pulsar 150 cc Motorcycle</b> Mr. Sagar B. Porlekar, Prof. (Dr). Ajit B. Kolekar



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**Session III**

**Track 3: Fluids and Thermal Engineering**

**Venue: LHE 103, Learning Center**

<b>Manuscript ID</b>	<b>Time</b>	<b>Title</b>
<b>ICAMAE-2023-4-16</b>	9.00 AM to 11.00 AM IST	<b>SOFC: Review on Advancements, Challenges and Pathways to Sustainable Energy Conversion</b> Tanmay Athalye, Kaustubh Kulkarni
<b>ICAMAE-2023-4-17</b>		<b>Review on Performance Optimization of Vapor Absorption Refrigeration System Using Distinctive Statistical Analysis Techniques</b> Kapil Jain, Basant Kumar Chourasia
<b>ICAMAE-2023-4-18</b>		<b>Experimental Investigation of Shock Waves Over Wedges and Blunt Shapes in Mini Supersonic Wind Tunnel</b> Subramaniam Hagilnathan, Eekshit, Vishnu Kumar G C
<b>ICAMAE-2023-4-19</b>		<b>A Graphical Assessment of Ethylene, Hydrazine, Isopropyl Alcohol, and Ammonia as Fuels in Combination with Nitrous Oxide, Hydrogen Peroxide, and Oxygen Oxidizers: Comparative Analysis Using ProPEP 3</b> Bilji C Mathew, Pallel Arvind, Akanksha S N, Kesiya S Joseph, Mohammed Sinan, Akshay Sreekumar, Parth Nayak
<b>ICAMAE-2023-4-20</b>		<b>Graphical Analysis of Fuels' Characteristics on Combustion with Oxidizers</b> Charanpreet Singh, Nikhil Paisadeli, Leon Manuel Paul, Devanshi Jariwala, Riddhi Upadhyay, Bilji C. Mathew, Arvind Pallela
<b>ICAMAE-2023-4-21</b>		<b>A review study on fluid flow past bluff bodies of various cross-section placed in different configurations</b> Rajesh Kumar, Mohit Hemanth Kumar
<b>ICAMAE-2023-4-22</b>		<b>Central Solar Tower Technology: Harnessing Solar Power at its Peak Efficiency</b> Ankith M, Sujay V, Hemanth V, Swetha Shekarappa G, Sheila Mahapatra



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**Session III**

**Track 4: Thermal and Aerospace Engineering**

**Venue: Seminar Hall 1, Learning Center**

Manuscript ID	Time	Title
ICAMAE-2023-4-23	9.00 AM to 11.00 AM IST	<b>An Integrated Approach to Failure-based Design Selection for Geared Mechanisms in HEV to Reduce Fuel Consumption and Emissions using Multisurrogate Optimization Model</b> Sourabh Mandol, Debraj Bhattacharjee
ICAMAE-2023-4-24		<b>5G Base Station Energy Management: Revisited</b> Amar Choudhary, Gaurav Kumar, Sandeep Dhariwal
ICAMAE-2023-4-25		<b>Process Optimization of Biodiesel Production from Mixed Pongamia, Animal Fat and Waste Cooking Oils Using RSM &amp; Performance Characteristics of CI Engine with Varying Biodiesel Blends</b> Venkatesh B. J., Venkatesh M. Kulkarni, Krishnamurthy K. N.
ICAMAE-2023-5-15		<b>Impact of Swirl Recovery Vanes on a Single Rotating Propeller under Transonic Conditions</b> Santhi R, Vasanthakumar P
ICAMAE-2023-5-16		<b>Advancements in Vimana Technology: A Comprehensive analysis of Design, Development, and Applications</b> Riptapan Singh, Bilji C. Mathew
ICAMAE-2023-5-17		<b>A Brief Study of Wing Morphing: Review</b> Aziz Ahmed Shams, Bilji C. Mathew
ICAMAE-2023-5-18		<b>Life estimations of leading-edge vortex controller assembly based on measured vibration test data using random vibration analysis approach</b> Dasari Pavan Kumar, Ganapathi Joshi
ICAMAE-2023-5-19		<b>Design of heater circuit for 8S1P lithium-ion battery pack for nanosatellite application</b> Babu Vishwanath Hemath Kumar, Mohit Hemanth Kumar



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**Venue: Seminar Hall 3, Learning Center**

Manuscript ID	Time	Title
ICAMAE-2023-5-12	9.00 AM to 11.00 AM IST	<b>Numerical Simulation of RBCC Inlet at Scramjet Mode Mach 5 Using Ramp Shaped Micro Vortex Generator</b> Ritul Raj, Ganapati N. Joshi
ICAMAE-2023-5-13		<b>Computational Study of the Shock Wave Boundary Layer Interaction Induced Separation Bubble in Scramjet Engine intake</b> Dinesh Babu R, Ganapati N Joshi
ICAMAE-2023-5-14		<b>Evolution of Aircraft Surface Defect Detection with Advanced Learning</b> Vineet Bhatia, Sanjeev Khare, Sumati Sidharth
ICAMAE-2023-5-23		<b>Experimental Evaluation of Boron-Titanium-Based Solid Fuel Using a Lab-Scale Ducted Rocket Motor</b> Syed Alay Hashim, A. Afra Arah, Anghan Prit Parashotambhai, Md. Ajaz Ahmed, Saugata Mandal, Srinibas Karmakar, Arnab Roy
ICAMAE-2023-2-16		<b>EBSD observations of microstructural features and mechanical assessment of INCOLOY 800HT and P91 stainless steel dissimilar welds</b> V. Lakshmanan, T Arun Nellaippan, N. Senthilkumar, R. Rajeshkumar
ICAMAE-2023-3-26		<b>Optimizing Pantograph Performance with Aluminum Metal Matrix Composites: A FEA-Based Feasibility Study</b> Abhishek Agarwal
ICAMAE-2023-3-27		<b>Nonlinear Finite Element Analysis for Enhanced Structural Understanding in Rail Wheel Dynamics</b> Abhishek Agarwal
ICAMAE-2023-3-28		<b>Geometric Nonlinear Analysis of an Adhesively Bonded Composite Tee Joint under Static Loading Conditions</b> Meghana K.M., Shashank V.



**ATCON 2: ICAMAE 2023**  
**28<sup>th</sup> to 30<sup>th</sup> November 2023**

**Day 2: 29.11.2023**

**Session IV**

**Venue: LHE 101, Learning Center**

Manuscript ID	Time	Title
ICAMAE-2023-3-19	11.15 AM to 1.15 PM IST	<b>Low Power High Speed Multiply Accumulate Unit using Partial Product Reduction Process</b> Dr. Sridhar T , Dr. Ramana Murty G
ICAMAE-2023-5-20		<b>Enhancing Accuracy and Efficiency in Detecting Aircraft Surface Dents and Scratches through CNN and QCNN Algorithm</b> Prajwal M, Vijayalakshmi Bharathi K, Neelapala Anil Kumar, Parlapalli Lakshmi, Anchara M
ICAMAE-2023-2-13		<b>Joining dissimilar materials with the use of an in-house bespoke rotary friction welding machine</b> Michail Dellepiane, Athanasios Toumpis and Laurie Da-Silva
ICAMAE-2023-5-22		<b>Assessing the Growing Threat: A Comprehensive Study of Space Debris</b> M.M Shyam Venkat, Badige Sudeep Kumar Achari, Vijayalakshmi Bharathi K, Gisa G S
ICAMAE-2023-2-17		<b>A comparative analysis on microstructural and corrosion aspects of AA5083 alloy weld beads processed by GTAW and SpinArc-GMAW</b> M. Umar, G. Balaji, A. Maria Jackson
ICAMAE-2023-2-18		<b>An Experimental Investigation to study influence of control parameters of rotary EDM on surface roughness of Monel using brass electrode</b> Jasanpreet Singh, Partap Singh Samra, Amresh Kumar
ICAMAE-2023-2-19		<b>Non-Linear Analysis of Cold-Worked Austenitic Stainless-Steel Reinforcing Bar Post-Fire Material Response</b> Haitham Abdullah Khamis AlAdwani, Khadersab Adamsab