1st International Conference on Sustainable Management and Advanced Research Technologies (IC-SMART-2026)

Hybrid Mode

March 27-28, 2026

Scopus® Indexed Publication

Technical Co-Sponsored

Publication Partners:

Organized by

Kasegaon Education Society's
Rajarambapu Institute of Technology
An Empowered Autonomous Institute
Affiliated to Shivaji University, Kolhapur

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Conference Venue: Rajarambapu Institute of Technology, Rajaramnagar

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IC-SMART (2026)- Conference Schedule

Day-1

Friday, 27th March 2026

Time	Events							
8:45 to 9:45	Registration							
9:45 to 11:00	Inaugural Function							
11:00 to 11:10	**Tea Break**							
11:10 to 11:30	Dr. Anil Kumar (Head & Scientist 'G' IIRS/ISRO, DEHRADUN) - Plenary Speaker							
11:30 to 11:50	**Prof. Laurent Chebassier - Plenary Speaker**							
11:50 to 12:10	**Prof. Matthew M. Shin - Plenary Speaker**							
12:10 to 12:50	Panel Discussion							
12:50 to 13:10	**Dr. Lung-Jieh Yang -- Plenary Speaker**							
13:10 to 13:30	**Prof.Dr. Thomas Himmelsbach -- Plenary Speaker**							
13:30 to 14:30	Lunch							
14:30 to 14:50	**Prof. MAUDLE BARS -- Plenary Speaker**							
	Session-1	Session-2	Sesssion-3	Session-4	Session-5	Sesssion-6	Session-7	Session-8
14:50 to 15:10	**Keynote Speaker**	**Keynote Speaker**	**Keynote Speaker**	**Keynote Speaker**	**Keynote Speaker**	**Keynote Speaker**	**Keynote Speaker**	**Keynote Speaker**
15:10 to 17:00	OFFLINE *Session Chair:* _____ **Civil Engineering, Materials & Mechanical Systems** **1.** Efficacy of Geopolymer Concrete in Flexural Members Reinforced with Steel Fibres **2.** Micro-Concrete for Sustainable Infrastructure Repair: Technological Progress, Applications,	OFFLINE *Session Chair:* _____ **Sustainable Energy Systems & Power Electronics** **1.** Hybrid Solar PV-Powered EV Charging Station with Energy Storage System **2.** Design and Implementation of a Solar-Powered Three Phase	OFFLINE *Session Chair:* **AI in Healthcare, Biomedical & Clinical Applications** **1.** Adaptive Meta-Learning Framework for Robust and Cross-Domain Skin Lesion Classification **2.** Deep Learning-Based Automated Nail Disorder	ONLINE *Session Chair:* **AI in Healthcare, Mental Health & Biomedical** **1.** An Intelligent System for Early Heart Failure Risk Prediction **2.** State of the Art Multimodal Fusion Techniques for Mental	ONLINE *Session Chair:* **Cybersecurity, Fraud Detection & Blockchain** **1.** Visualizing IoT Network Flows: Image-Based Deep Learning vs. Statistical Models for Intrusion Detection **2.** Why High Accuracy Is Not Enough: Cross-Dataset	ONLINE *Session Chair:* **NLP, Language Technologies & Multimodal AI** **1.** A Comparative Analysis of Unimodal and Multimodal Transformers for Hindi Speech Emotion Recognition **2.** Multimodal Speech	ONLINE *Session Chair:* **AI for Agriculture, Environment & Smart Systems** **1.** Engineering Informatics-driven Framework for IoT-AI Integration in Dry Chilli Value Chain: A Hybrid Approach for Real-time Quality Grading and	ONLINE *Session Chair:* **IoT, Assistive Technology & Autonomous Systems** **1.** A Low-Cost, Energy-Efficient Gesture Recognition System Using EMG Signals, ESP32, and TinyML for Wearable Interfaces **2.** AI-Driven Sign

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Research Advances and Challenges - A Review	Multi Level Inverter	Classification	Health Detection	Evaluation and Adaptive Reconfiguration for Robust Machine Learning-Based Intrusion Detection Systems	Fluency and Quality Analysis Using Audio-Text Learning	Predictive Market Modeling	Language Interpretation and Translation System: A Robust and Affordable Vision-Based Approach
3. Analysis of Heat Transfer Rate of Refrigeration Discharge Coil	**3.** SoC Estimation Using an Extended Kalman Filter Integrated with an Enhanced Path Finder Optimization Algorithm	**3.** Brain Tumor Detection Using a Hybrid Deep Learning Architecture	**3.** Enhancing Text-Based Mental Health Monitoring: Leveraging Relevant Emotional Features and Cultural Adaptation in Sentiment Analysis with Machine Learning	**3.** A Survey on Automation of Criminal Record Management and FIR Filing using AI, Blockchain and Chatbots	**3.** A Comprehensive Overview of Transformer-based Neural Architectures: Models, Design and Comparative Study	**2.** AI-Driven Rice Yield Prediction with Circular Economy Insights on Crop Residue Utilization	**3.** Hybrid AI-Powered Navigation and Voice-Based Q&A Assistant for the Visually Impaired
4. Finite Element Analysis and Computation of Rayleigh's Damping Coefficients of FRC Machining Fixture	**4.** Discrete-Time Analysis of Nonlinear Dynamics in Buck Converters Feeding CPL Bifurcation	**4.** From Algorithms to Clinic: Analytical Insights into Machine Learning and Deep Learning Frameworks for Breast Cancer Detection	**4.** An Iterative and Metric-Driven Review of Lung Cancer Detection Models: Architectural Evolution, Numerical Benchmarking, and Clinical Readiness Across Multi-Modal Imaging Scenarios	**4.** Detecting Textured Contact Lens Spoofing Attacks for Biometric Authentication	**4.** ChatGPT Era: Evolution, Uses, Needs, Objectives, Comparative Models & Detailed Analysis	**3.** An AI Driven Framework For Nutrient Deficiency Detection And Personalized Diet Recommendation	**4.** An Energy-Efficient Real-Time Multi-Sensor IoT Framework for Early Landslide Detection in Remote Regions
5. Influence of SLM Process Parameters on Density and Hardness of Ti-6Al-4V Using Experimental and Statistical Approaches	**5.** Design of Miniaturized Metamaterial Antenna using Slot Loaded Circular Patch with CSRR for WLAN	**5.** A Classification Framework for Large Language Models (LLM)-Generated Counseling Responses	**5.** Advancing Urologic Robotic Oncologic Surgery Through Artificial Intelligence	**5.** Deepfake Video, Audio and Image Detection	**5.** AI-Powered Multilingual Dubbing & Voice Cloning	**4.** Modernizing Waste Water Management Systems with Machine Learning: A Comprehensive Review	**5.** Trends, Challenges and Future Scope of PLC-Based Automation with AI and ML Integration
6. Review on Magnetorheological Fluids and their Automotive Applications	**6.** A Comparative Review of Reduced Switch Multilevel Inverter for Grid Connected PV Systems	**6.** Review on Functionally Graded Polymer Reinforced Composite Material Exposed to High Temperature	**6.** EmotiTrack: Automated Emotion Mapping and Mental Health Trend Detection	**6.** Viyom - A Transparent Blockchain-based Donation & Fund Allocation Platform	**6.** FontNet-K: Word-Level Kannada Font Classification Using CNNs	**5.** Technological Approaches for Vehicular Emission Monitoring and their Implications in Air Pollution Control	**6.** 3D Printing Application in Design and Manufacturing of Prosthesis
7. A Review of Nanosilica Impact on Concrete's Characteristics	**7.** Amorphous Silicon p-i-n Cells Above 6% Efficiency Without Diborane: Materials, Doping Alternatives, and Device Design	**7.** A Machine Learning-Enabled Decision-Support System for Equipment Loss Risk Assessment and Mitigation in High-Intensity Conflict Zones	**7.** Deep Learning for Developing Assistive Technologies, such as Prosthetic Limbs and Exoskeletons	**7.** Stability-Driven Feature Selection for Credit Card Fraud Detection under Temporal Distribution Shift	**7.** Sentiment Analysis of Instagram Images and Captions	**6.** Smart Agriculture Cybersecurity: An ML-Enabled Threat Detection Framework	
8. Development of AI Based Soil Testing Machine for Agriculture Purpose		**8.** A Study on Enhancing Fairness in Bigdata Analytics through Bias Detection and Mitigation Technology				**7.** A Permissioned Blockchain-Based AI Framework for Sustainable Smart Farming Using Hyperledger Fabric	

Time	
16:10 to 16:20	**Tea Break**
19:00 to 20:00	**Cultural Programme**

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IC-SMART (2026)- Conference Schedule

Day-2

Saturday, 28th March 2026

Time	Events							
10:00 to 10:20	Dr. Hsing-Hao Wu -- Plenary Speaker							
10:20 to 10:40	Dr. Amod Bhat -- Plenary Speaker							
10:40 to 11:00	Ram Kunchur -- Plenary Speaker							
11:00 to 11:10	Tea Break							
11:10 to 11:30	Dr. Sandeep P Patil -- Plenary Speaker							
11:30 to 11:50	Makoto SAITO -- Plenary Speaker							
11:50 to 12:20	Dr. Eng. Zdzisław PÓLKOWSKI-- Plenary Speaker							
12:20 to 13:00	Panel Discussion							
13:00 to 14:00	Lunch							
	Session-1	Session-2	Sesssion-3	Session-4	Session-5	Sesssion-6	Session-7	Session-8
14:00 to 14:20	**Keynote Speaker**	**Keynote Speaker**	**Keynote Speaker**	**Keynote Speaker**	**Keynote Speaker**	**Keynote Speaker**	**Keynote Speaker**	**Keynote Speaker**
14:20 to 16:00	**OFFLINE** *Session Chair: _____* **AI/IoT for Industrial, Agricultural & Smart Applications** **1.** Development of a Manually and Remotely Controlled Feeder Line for Broiler Poultry Applications **2.** A Digital Twin-Based Kinematic Simulation Framework for Trajectory Tracking and Error Analysis of 7-DOF Manipulators	**OFFLINE** *Session Chair: _____* **AI Theory, Optimization, NLP & Learning Systems** **1.** Reconstructing QLoRA from First Principles: A Comprehensive Study of Quantized Low-Rank Fine-Tuning for Large Language Models **2.** Cluster-Evolving Metric-Aware Learning for Intelligent and Sustainable Analytics **3.** On the Solvability and	**OFFLINE** *Session Chair: _____* **Finance, Governance, Cybersecurity & Society** **1.** A Systematic Review of Academic Libraries Supporting Interdisciplinary Deep Learning Applications for Sustainable Management **2.** Saving Habits and Investment Behavior of Working Professionals in Kolhapur City Influencing Their Financial Decisions	**ONLINE** *Session Chair:* **Finance, ESG, Business & Digital Economy** **1.** Generational Differences in FinTech Adoption and Financial Well-Being: An Empirical Study of Generation Z and Millennials **2.** The Role of Social Media in ESG Integration: Evidence from Investor Awareness, Perception,	**ONLINE** *Session Chair:* **Federated Learning, ML Theory & Intelligent Systems** **1.** Comparative Analysis of Model Aggregation Algorithms in Federated Learning **2.** A Comprehensive Survey of JAYA, FISA, TLBO, and RAO-1, RAO-2, and RAO-3 Statistical Optimization Algorithms	**ONLINE** *Session Chair:* **Computer Vision, Signal Processing & Electronics** **1.** A Comparative Analysis of CNN, ResNet-18, and Hybrid Architectures for Image Tampering Detection **2.** Deep Learning-Based Image Deraining for Robust Object Detection in Autonomous Driving Under Adverse Weather	**ONLINE** *Session Chair:* **AI in Education, Content Creation & Assistive Applications** **1.** Intelligent Content Creation System for Educators **2.** AI-Powered Classroom Notes Recorder: Real-Time Transcription, Summarization, and Translation for Accessible Learning	**ONLINE** *Session Chair:* **Smart Cities, Transport, Environment & Emerging Applications** **1.** Spatio-Temporal Analysis of Road Accident Hotspots: A Case Study on the Samruddhi Mahamarg, Maharashtra **2.** Robust Vision-Based Lane Detection for Advanced Driver Assistance Systems

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3. Smart Assistive Footwear: Based on IoT and Edge Computing for Visually Challenged Users **4.** Graph Integrated Smart Meter Intelligence for Revenue Assurance and Self-Healing Distribution Networks & Scenarios **5.** Soil Nutrient Analysis for Crop Prediction System **6.** River Water Quality Evaluation Methods: A Review **7.** A Machine Learning-Enabled Decision-Support System for Equipment Loss Risk Assessment and Mitigation in High-Intensity Conflict Zones	Solution of Second-Order Fuzzy Relational Equations for Trapezoidal e-d Fuzzy Numbers **4.** Sorted: Mirroring Human Logic via Local-First Semantic Organization **5.** Comparative Evaluation of CNN Architectures for Plant and Medicinal Plant Identification Using Leaf Images **6.** Temporal Analysis of Anomalous Behavior in Surveillance Videos Using Long Short-Term Memory Networks **7.** Adaptive Credit Card Fraud Detection Using Machine Learning Techniques	**3.** A Comprehensive Review on the Utilization of Low-Grade Data Center Waste Heat for Absorption Cooling: Pathways to Energy-Sustainable Computing **4.** Bridging the Digital Divide in Business Education: The Role of Artificial Intelligence in Enhancing Employability Skills **5.** Stability-Oriented Multimodal Learning for Robust and Sustainable Malware Detection **6.** A Probabilistic Open-Set Intrusion Detection Framework for Sustainable Security in Decentralized Digital Ecosystems **7.** RPA-based Auto Deployment Module for E-Way Bill Generation	and Decision-Making in Global Equity Markets **3.** Beyond Compliance: Corporate Environmental Sustainability & Community Engagement in India **4.** A Study to Understand Consumer Awareness and Preference Towards Eco-friendly Ganesha Idols in Pune **5.** Syn-SWIFT: A High-Fidelity, Explainable Synthetic SWIFT Dataset for Benchmarking Federated Fraud Classifiers **6.** A Multi-Level Job Title Normalization for Prediction of Job Domain from skills using Machine Learning **7.** Green Banking Practices and Customer Perception: A Study of the Indian Banking Sector	**3.** FTIR-Driven Hierarchical Deep Learning for Reliable Authentication and Adulterant Identification in Ghee **4.** Deep Multimodal Framework for Detecting External AI Usage in Candidate Interviews through Speech Behaviour **5.** Kalachakra: An Emotional Contextual Memory Intelligence Framework for Human-Centric AI **6.** A Systematic Review of AI-Driven Server-Side Context Caching for Model Context Protocol to Optimize User Query Processing **7.** Method of Secure Authentication for Wireless Sensor Networks Based on Clusters	**3.** Comprehensive Design and Performance Evaluation of an 8-bit R-2R Digital-to-Analog Converter **4.** Channel Estimation for OFDM System using Optimization Algorithms **5.** Thermal Analysis of Perforated AL6063-T6 Fin Heat Sink **6.** Retractable Shield with Temperature Adaptation for Enhanced Solar Panel Durability **7.** From Planned Purchases to Impulse Buying: The Influence of Quick Commerce on Consumer Buying Behaviour	**3.** DemoCal: AI-Driven Calorie and Nutrition Estimator **4.** Leveraging Multimedia in ISL Lexicography: Improving Educational Access for Hearing-Impaired Learners **5.** Architecture for Implementing IoT, Data Analytics and Related Advanced Technologies in Banking Sector **6.** AI-Enabled CREO Automation with Predictive Computational Modeling for Sustainable Smart Composite Manufacturing	(ADAS) **3.** Impact of Shear Wall Percentage and Grade of Concrete on Seismic Response of G+30 Reinforced Concrete Residential Building **4.** A Review of Photovoltaic Forecasting-Based Sustainable EV Charging in Commercial Buildings **5.** Persistence of Dragonflies (Odonata) in Urban Freshwater Systems and the Potential of Artificial Habitats for Biodiversity Conservation **6.** Method of Secure Authentication for Wireless Sensor Networks Based on Clusters **7.** Economic Practices of Un-organized Fruit and Vegetable Vendors: An Empirical Study of Pricing and Demand–Supply Dynamics

16:00 to 16:10	**Tea Break**
16:10 to 16:50	**Valedictory Function**