



# 1<sup>st</sup> International Conference on Sustainable Communication, Machine Intelligence and Metaverse (SCMIM) - 2025

7<sup>th</sup> - 8<sup>th</sup> February, 2025 (Hybrid Mode)

Organized by

MCKV Institute of Engineering  
(NAAC Accredited 'A' Grade Autonomous Institution)

## Programme Schedule

### Day 1: 07-02-2025 (Hybrid Mode)

Time	Event	Google Meet Link
9:00 AM - 9:30 AM	Registration at MCKVIE Campus	Offline Mode
9:30 AM - 10:30 AM	Inauguration Programme at AV Hall, M. C. Kejriwal Vidyapeeth Campus, Liluah	Offline Mode
10:30 AM - 11 AM	Tea Break	
11:00 AM - 11:15 AM	Keynote Speech 1: Prof. Akhtar Kalam	<a href="https://meet.google.com/xhf-iy mk-cdg">https://meet.google.com/xhf-iy mk-cdg</a>
11:15 AM - 11:30 AM	Keynote Speech 2: Dr. Shervin Zakeri	
11:30 AM - 1:00 PM	Parallel Technical Session 1 (Special Session)	<a href="https://meet.google.com/xhf-iy mk-cdg">https://meet.google.com/xhf-iy mk-cdg</a>
11:30 AM - 1:00 PM	Parallel Technical Session 2 (Special Session)	<a href="https://meet.google.com/ioz-zxys-knv">https://meet.google.com/ioz-zxys-knv</a>
11:30 AM - 1:00 PM	Parallel Technical Session 3 (Special Session)	<a href="https://meet.google.com/jip-tyoa-dfg">https://meet.google.com/jip-tyoa-dfg</a>
1:00 PM - 2:00 PM	Lunch Break and Networking	
2:00 PM - 3:30 PM	Parallel Technical Session 4	<a href="https://meet.google.com/jip-tyoa-dfg">https://meet.google.com/jip-tyoa-dfg</a>
2:00 PM - 3:30 PM	Parallel Technical Session 5	<a href="https://meet.google.com/xhf-iy mk-cdg">https://meet.google.com/xhf-iy mk-cdg</a>
2:00 PM - 3:30 PM	Parallel Technical Session 6	<a href="https://meet.google.com/ioz-zxys-knv">https://meet.google.com/ioz-zxys-knv</a>

### Day 2: 08-02-2025 (Online Mode)

Day 2: 08-02-2025 (Online Mode)		
Time	Event	Google Meet Link
10 AM - 1.30 PM	Technical Sessions 7 & 8	
10:00 AM - 10:15 AM	Keynote Speech 3: Prof. Yuvraj Gajpal	<a href="https://meet.google.com/xhf-iy mk-cdg">https://meet.google.com/xhf-iy mk-cdg</a>
10:15 AM - 10:30 AM	Keynote Speech 4: Prof. Josua Thomas	
10.30 AM - 12.00 Noon	Paper Presentations of Technical Session 7	
12.00 Noon - 1.30 PM	Paper Presentations of Technical Session 8	
10 AM - 1.30 PM	Technical Sessions 9 & 10	
10:00 AM - 10:15 AM	Keynote Speech 5: Dr. Akhlaqur Rahman	<a href="https://meet.google.com/ioz-zxys-knv">https://meet.google.com/ioz-zxys-knv</a>
10:15 AM - 12:00 Noon	Paper Presentations of Technical Session 9	
12:00 Noon - 1.30 PM	Paper Presentations of Technical Session 10 (Special Session)	
1.30 PM - 2:30 PM	Break and Networking	
2:30 PM - 4:00 PM	Best Paper Award and Special Award Announcements & Valedictory Session	<a href="https://meet.google.com/ioz-zxys-knv">https://meet.google.com/ioz-zxys-knv</a>

# Detailed Schedule for Technical Sessions

## Day 1: 7<sup>th</sup> February, 2025 (Friday - Hybrid Mode)

Paper Id	Paper Title	Name of the Session	Time and Venue
14	Xploring advanced transfer learning strategies for landslide detection in Karnataka: A comprehensive review	<b>Technical Session 1 (Special Session): Decision Analytic Applications in Agriculture and Environmental Monitoring</b>	<b>11.00 AM - 1.00 PM Hybrid Mode (Conference Room, MCKVIE Campus) (<a href="https://meet.google.com/xhf-iykmk-cdg">https://meet.google.com/xhf-iykmk-cdg</a>)</b>
29	Explainable AI approach to fog prediction		
98	Plant stem health monitoring using deep machine learning		
144	A novel method for hybrid deep learning-based image captioning		
149	BIDIT: A bid evaluation decision support system using machine learning models		
158	Food recognition and categorization with yolov8 and yolov9 in inventory management system		

Paper Id	Paper Title	Name of the Session	Date and Time
95	Millimeter-wave window frequency estimation using machine learning	<b>Technical Session 2 (Special Session): Machine Intelligence in Smart City and Smart Healthcare</b>	<b>11.00 AM - 1.00 PM Hybrid Mode (SIT Hall, MCKVIE Campus) (<a href="https://meet.google.com/ioz-zxys-knv">https://meet.google.com/ioz-zxys-knv</a>)</b>
130	Comparative analysis of deep learning techniques for disease prediction using a symptom-based dataset		
162	Authentication of dual biometric attendance monitoring based on machine learning approach		
169	XAI for the interpretation of ensemble learning performance in potable of water: An application of machine intelligence		
174	Implementation of IoT based smart air pollution monitoring system for environment sustainability		
186	A novel ensemble model for high-precision landslide segmentation in satellite imagery		
202	Explainable AI based crop recommendation systems for improved yield predictions		
203	Convolutional neural networks for breast cancer diagnosis: A deep learning approach		
204	Machine learning prediction model for multiple ailments		
207	Assessing professional readiness and ethical challenges for AI integration in mental health services		
208	AI-powered geo-location platform for real-time emergency medical services and enhancing patient care		

211	Raga Reverie - A raga-origin detection algorithm and its therapeutic implementations		
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Paper Id	Paper Title	Name of the Session	Time and Venue
155	Customer sentiment analysis with K-VADER approach on online reviews	<b>Technical Session 3 (Special Session): Business Developments and Analytics with Artificial Intelligence and Machine Learning Techniques</b>	<b>11.30 AM - 1.00 PM (Online Mode)</b>  <a href="https://meet.google.com/jip-tyoa-dfq">https://meet.google.com/jip-tyoa-dfq</a>
166	Stock price prediction with LSTM-based framework in account of multiple technical indicators		
167	URL phishing detection with exploratory data analysis for secure customer communication		
175	Stock market forecasting with deep learning techniques: A systematic review from 2020 to 2024		
205	Stem to Stern Analysis of Customer Segmentation: A Bibliometric Perspective		
226	Performance analysis of machine learning models in short-term stock predictions on Indian market		
297	Association rule mining strategies for retail market analysis		

Paper Id	Paper Title	Name of the Session	Time and Venue
6	Revolutionary IoT biomimetic olfactory chips to enable ai advanced gas sensing and odor detection	<b>Technical Session 4: Machine Learning, Big Data, and Generative Systems</b>	<b>2:00 PM - 3:30 PM (Online Mode)</b>  <a href="https://meet.google.com/jip-tyoa-dfq">https://meet.google.com/jip-tyoa-dfq</a>
8	Leveraging big data for enhancing agricultural productivity in the context of climate change		
79	Performance analysis of machine learning and deep learning for sentiment analysis		
206	SignLanguage Detection Using CNN		
242	A comparative analysis of fraud detection in financial transactions through leveraging information gain and diverse machine learning techniques		
254	Advanced machine learning for shape and margin analysis in analog computing		
266	Vocal Aura: Merging human expression with AI-enhanced voice synthesis for creativity		
295	Information extraction from scanned image using model combining convolution neural network and graph attention network		

299	Adaptive learning system forward by generative AI personalised content generation, evaluation, and performance analytics		
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Paper Id	Paper Title	Name of the Track/Session	Time and Venue
9	Blockchain-enhanced CMS: Securing static content against digital crime	<b>Technical Session 5: Blockchain, and Machine Learning for Smart Systems and Financial Innovation</b>	<b>2:00 PM - 3:30 PM</b> <b>Hybrid Mode</b> <b>(Conference Room, MCKVIE Campus)</b> <a href="https://meet.google.com/xh-f-iy mk-cdg">https://meet.google.com/xh-f-iy mk-cdg</a>
62	A comprehensive review of artificial intelligence and machine learning in cyber-physical systems for grid-connected wind turbine control		
93	Improving financial inclusion through blockchain-based smart contracts in Ghana's rural microcredit institutions		
159	THD and power loss minimization of ANPC and SC-based 3-phase interleaved five-level symmetric inverter using SVPWM		
160	Enhancement of dust and shading level classification of solar panel using multi agent-based hybrid machine learning		
222	An Integrated MCDM and machine learning algorithms for diabetes prediction - A comparative analysis		
230	Implication of varying estimation period of technical indicators on trading performance using traditional ml models		
245	a comprehensive investigation of stock market influence on India's economic growth		

Paper Id	Paper Title	Name of the Track/Session	Time and Venue
135	A perspective study of the effect of influential super spreaders on different sectors: A complex network scenario	<b>Technical Session 6: Optimization, AI, and Blockchain in Emerging Applications</b>	<b>2:00 PM - 3:30 PM</b> <b>Hybrid Mode</b> <b>(SIT Hall, MCKVIE Campus)</b> <a href="https://meet.google.com/io-z-zxys- knv">https://meet.google.com/io-z-zxys- knv</a>
194	Tanimoto Pythagorean Fuzzy TODIM Approach for Supplier Selection Problems: A Business Intelligence Perspective		
209	Smart bicycle parking system		
227	Cookies: AI-driven personalized recipe recommendation platform using image recognition and ingredient analysis		
237	Maternal health risk classification using machine learning model		
244	Comparative study of hybrid optimization techniques on WEDM responses		
247	Optimum selection of natural fiber-polymer composites for sustainable practices based on probability technique and euclidean distance function		

253	RealEstateBlock: A real estate application using blockchain		
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## Day 2: 8<sup>th</sup> February, 2025 (Saturday - Online Mode)

Paper Id	Paper Title	Name of the Session	Date and Time
75	Leveraging AI to identify Parkinson's disease biomarker trends in India: A bibliometric analysis of PubMed data	<b>Technical Session 7: AI-Driven Solutions in Healthcare and Social Applications</b>	<b>10 AM - 1.30 PM (Online Mode)</b>  <a href="https://meet.google.com/xhf-iy mk-cdg">https://meet.google.com/xhf-iy mk-cdg</a>
85	Leveraging machine learning algorithms for college student career decision making process		
153	An automatic skin cancer identification method with incorporation of deep learning approach		
161	Code Sight: Automated Python-to-Braille transformation with OCR for inclusive access		
170	Question generation for personalised learning platform for students		
178	An efficient approach of VLSI architecture of DWT for feature extraction of EEG signal processing in BCI applications		
201	Impact of data augmentation on the performance of CNN Models		
219	Development of Bidirectional-LSTM model for prognostic health monitoring (PHM) of NASA turbofan engine		
323	Analyzing key challenges in eco-tourism supply chain		
285	Beyond anonymity: A survey of machine learning approaches to cyberbullying detection		
301	Enhanced diagnosis of encephalomyelitis disseminata disease with Novel XGBoost against SVM algorithm		
331	Detection of breast cancer using soft computing approach		

Paper Id	Paper Title	Name of the Session	Date and Time
81	Grinding Process Monitoring Based on Machine Learning	<b>Technical Session 8: Innovations in Intelligent Systems, Metaverse and Sustainable Technology Applications</b>	<b>10 AM - 1.30 PM (Online Mode)</b>  <a href="https://meet.google.com/xhf-iy mk-cdg">https://meet.google.com/xhf-iy mk-cdg</a>
148	Impact of the metaverse on higher education enabling sustainable development		
156	Implementing chord protocol using consistent hashing		
179	Revolutionizing agriculture: Multipurpose agricultural rover (MAR)		

260	A hybrid fuzzy AHP-VIKOR framework for systematic evaluation and ranking of metaverse applications		
294	Transform text to image using improved generative adversarial network models		
316	Deploying internet of things in green supply chain with applications in the dental equipment industry		
329	Multi-criteria evaluation of arc welding robots: An integrated CODAS-MEREC model		
343	Selection of suitable material for automotive bumper using entropy-based CoCoSo method		
346	Security and Energy Efficiency in Smart Homes using Wireless IoT Technologies		

Paper Id	Paper Title	Name of the Session	Date and Time
84	VLSI implementation of multiplier and accumulator	<b>Technical Session 9: Sustainable Communication Technologies</b>	<b>10 AM - 1.30 PM (Online Mode)</b> <a href="https://meet.google.com/ioz-zxys-knv">https://meet.google.com/ioz-zxys-knv</a>
111	Performance analysis of induction motor fed by PWM using continuous wavelet transform (CWT)		
112	A systematic literature review on the privacy and security of cloud-integrated AI-enabled internet of medical things (IoMT)		
128	Analysis of automatic speech recognition for domain specific contents		
147	Next-gen renewable battery management: harnessing AR/VR and digital twins		
214	Development of multilayer IoT enables Intrusion detection System for Physical objects		
220	Design and simulation of switched-capacitor based tunable active filters for application in neonatal electrocardiogram		
221	Experimental performance analysis and prediction of output of solar powered boost converter circuit by varying load		
236	An efficient vehicle rental system: seamless user experience with real-time web-based e-mail integration		
338	Strategic evaluation of sustainable communication technologies: A fuzzy additive weights and interval-based ranking framework		

Paper Id	Paper Title	Name of the Session	Date and Time
86	Green human resource management in the sustainability landscape: A bibliometric study on emerging trends	<b>Technical Session 10</b> <b>(Special Session):</b> <b>Decision Analytics for Sustainable Supply Chain Management in Industry 4.0 Environment</b>	<b>10 AM - 1.30 PM</b> <b>(Online Mode)</b> <a href="https://meet.google.com/ioz-zxys-knv">https://meet.google.com/ioz-zxys-knv</a>
99	Analyzing vulnerabilities: implementing DEMATEL for robust defense supply chain design		
105	A study of key success factors with application of AI and ML in manufacturing sector in industry 4.0 environment		
108	Step towards Sustainable Project Management - A Case Study on CCPM Implementation		
116	Study of challenges faced by women agri-entrepreneurs towards sustainable supply chain management: An ISM approach		
190	Ranking sustainability drivers in indian marine product supply chains using interpretive structural modelling (ISM)		
223	A critical analysis on benefits of IoT and AI on the mining sector		
224	Bridging tradition and innovation: Evaluating Industry 4.0 readiness in the coir industry using AHP		
228	Linking green farms to green markets: Identifying the key drivers for agricultural supply chain management		
265	Investigation and ranking of the drivers of IoT in logistics and supply chain management		