



AMITY UNIVERSITY

International Conference on Intelligent and Innovative Practices in Engineering & Management

IPEM 2024

Co-Technical Partner: IEEE
CONFERENCE RECORD NUMBER #62726

TENTATIVE PROGRAMME SCHEDULE 25th November 2024

Inaugural Session Time: 0930Hrs-1120Hrs Location: Amity University, 228 Orchard Rd, Singapore 238853	
1400 Hrs 1405 Hrs (SST)	Invocation by Master of Ceremony
1405– 1410Hrs	Welcome Address
1410 – 1420 Hrs	Welcome Address by Prof. (Dr.) Gurinder Singh, Group Vice Chancellor, Amity Universities
1420– 1430 Hrs	Keynote Address by Yan Wu, IEEE, Singapore
1430 - 1440 Hrs	Keynote Address by Dr. Inderjit Singh, Founder and CEO of Solstar International
1440 – 1450 Hrs	Address by Dr. Satinder Singh Rekhi, Founder of R Systems
1450 – 1500Hrs	Address by Mr. Amit Rana, Director - Alliance & Channels, SAAS at Oracle
1500 – 1510Hrs	Address by Dr Mandy Mok, CEO & Founder of AppliedHE
1510 – 1520 Hrs	Address by Ms. Nimisha Tailor, Founder and Consultant Economics
1520 – 1530 Hrs	Chancellor's Address - Dr. Atul Chauhan, Honourable Chancellor, Amity University (TBC)
1530-1540 Hrs	Visionary thoughts by Dr. Ashok K. Chauhan Honourable Founder President, Ritnand Balved Education Foundation (The Foundation of Amity Institutions and the sponsoring body of Amity Universities) & Chairman, AKC Group of Companies (TBC)
1540 – 1550 Hrs	Best paper Award
1550 -1615 Hrs	High Tea

Hybrid Mode	
1630 – 1800 Hrs. (SST)	
Location: Amity University, 228 Orchard Rd, Singapore 238853	
Online Link:	
Time (SST)	Event
1630-1635 Hrs.	Invocation by Master of Ceremony
1635-1645 Hrs.	Opening Remarks & Welcome Address Prof. (Dr.) Gurinder Singh, Group Vice Chancellor, Amity Universities
1645- 1655 Hr	Chancellor's address - Dr. Atul Chauhan, Honourable Chancellor, Amity University (TBC)
1655 – 1705 Hrs.	Visionary thoughts by Dr. Ashok K. Chauhan Honourable Founder President, Ritnand Balved Education Foundation (The Foundation of Amity Institutions and the sponsoring body of Amity Universities) & Chairman, AKC Group of Companies (TBC)
1705 – 1730 Hrs.	Cultural Program
1830 – 1900 Hrs.	Alumni Interaction (All Alumni are requested to give 5 minutes acceptance speech).
1900 – 1905 Hrs.	Vote of thanks
1905 -2000 Hrs.	Dinner

*Timings are subject to revision on the date of the conference (25th November 2024)

* Zoom link will be shared one day before the conference.

*Other missing details shall be updated subsequently, all concerned are requested to keep checking the conference website for updates: <https://www.amity.edu/iipem2024/conference-schedule.asp>

#Papers shall be sent to IEEE Xplore only if the papers have been presented.

OFFLINE SESSION				
IEEE SINGAPORE				
VENUE-				
S.No	Paper ID	Paper Title	Paper Presenter	Presentation Slot (HOURS)
1	32	Improving Energy Efficiency in Three-Tier IoT Sensor Networks through NDFT-Based Power Optimization		10:00(IST)/12:30(SGT)
2	214	Integrated IoT-Based Smart Home Security System: Real-Time Hazard Detection and Alerts Using Multi-Sensor Fusion		10:10(IST)/12:40(SGT)

		OFFLINE SESSION		
		IEEE SINGAPORE		
		VENUE-		
S.No	Paper ID	Paper Title	Paper Presenter	Presentation Slot (HOURS)
3	187	Bayesian and Genetic Optimization for Human Activity Recognition with CNN and LSTM		10:20(IST)/12:50(SGT)
4	28	Advanced Security Model for Cloud Infrastructure Using Cryptography and Steganography		10:30(IST)/13:00(SGT)
5	346	Blockchain Technology the Leading Area Over the World and Navigating the Blockchain Landscape		10:40(IST)/13:10(SGT)

		TRACK 1		
		SESSION CHAIR:		
		ZOOM LINK:		
S.No	Paper ID	Paper Title	Paper Presenter	Presentation slot
1	2	MarineLens: Empowering Conservation Through AI-Powered Fish Species Detection and Insights		
2	79	Advancements in User Interfaces and Immersive Technologies in Virtual Reality		
3	11	Combating Cyber Attacks By Malware Classification Using Deep Neural Networks		
4	12	Examining the Smart Tourism Landscape: A Bibliometric Study and Analytical Synopsis of IoT Research		

		TRACK 1		
		SESSION CHAIR:		
		ZOOM LINK:		
S.No	Paper ID	Paper Title	Paper Presenter	Presentation slot
5	26	Financial Inclusion through Fintech Services in Saudi Arabia: Empirical Study		
6	29	AI IN BIOINFORMATICS AND GENOMICS		
7	39	IoT- driven Predictive Maintenance for Enhanced Reliability in Industrial Applications		
8	348	Exploring and Modeling Factors Influencing Obesity with a Comprehensive Analysis Using Synthetic and Real-World Data		
9	49	Enhancing Student Outcomes with LSTM-CNN and Data Analytics in Higher Education		
10	172	DEEP LEARNING AND ITS APPLICATIONS: A NOVEL APPROACH TO MACHINE LEARNING WITH ENCODING ALGORITHMS		
11	260	Diversity and Inclusion in African Organizations: An Examination of Cultural Influences		

		TRACK 2		
		ZOOM LINK:		
S.No	Paper ID	Paper Title	Paper Presenter	Presentation Slot
1	50	Application of Machine Learning in Multi-Store Retail Demand Forecasting: A Case Study of Tuenjai Company		
2	51	The Acceptance of Using AI Prompt Text Connecting with Trust and Ethics in Education		
3	61	PSYCHOLOGICAL PERSPECTIVES ON AI REGULATIONS IN LEGAL CONTEXTS		

		TRACK 2		
		ZOOM LINK:		
S.No	Paper ID	Paper Title	Paper Presenter	Presentation Slot
4	245	IT Applications in New Product Development through Value Co-Creation: An Empirical Study		
5	347	Analyzing Trends, Skills Demand, and Salary Prediction in the AI and ML Job Market		
6	70	Enhancing Digital Content Security: Integration of Triple DES Encryption and Visual Cryptography		
7	78	Machine Learning based Suicidal Ideation Model: Increasing Scale rate Among Students		
8	80	A Novel LLM enabled Code Snippet Generation Framework		
9	83	Time Reduction Analysis Based on Infill Pattern on FDM 3D Printed PLA Material		
10	248	Relation Assessment of Corporate Social Responsibility and Environmental Sustainability: Beneficiaries Perspective		
11	173	AI APPLICATIONS AND THE FINANCIAL TRANSFORMATION OF FINTECH AND FINSERV SECTORS		

		TRACK 3		
		ZOOM LINK:		
		SESSION CHAIR:		
S.No	Paper ID	Paper Title	Paper Presenter	Presentation Slot
1	103	Integrating LLM with CNN-RNN for Optimizing Crop Production		
2	104	Innovation Champions in Agile Sprints: A Framework for Identification and Integration		
3	249	Innovative Approach for Global Health Governance in the Post-Pandemic Era		
4	174	IMPACT OF RESPONSIBLE AI ON NATIONAL CYBERSECURITY STRATEGY ON THE ENHANCEMENT OF CYBERSECURITY EDUCATION		
5	109	Expression Analysis of Tweets using NLP in Machine Learning		
6	110	IoT-Based Data Logging System for Authenticated Bank Locker Access to Ensuring Security		
7	111	Evaluation of Machine Learning Models for Kidney Stone Classification Using HOG Features on CT Images		
8	121	Impact of Ease of Doing Business Rank on Economic Performance		
9	69	AI AND INTELLECTUAL PROPERTY LAW: CHALLENGES AND OPPORTUNITIES IN DIGITAL AGE		
10	126	Predictive Energy Analytics for Intelligent Energy Management in Green Buildings		
11	135	ENHANCING DIFFUSER AUGMENTED WIND TURBINE PERFORMANCE USING CFD ANALYSIS		

		TRACK 4		
		SESSION CHAIR:		
		ZOOM LINK:		
S.No	Paper ID	Paper Title	Paper Presenter	Presentation Slot
1	108	Engineering Framework for Smart Poultry Farming Using Internet of Things		
2	180	AN ANALYSIS OF MACHINE LEARNING METHODS USED IN CYBER SECURITY DURING THE LAST DECADE		
3	185	SENTIMENT ANALYSIS USING MACHINE LEARNING METHODS		
4	250	DIGITAL SUPPLY CHAIN INTEGRATION: UNLEASHING THE POWER OF TECHNOLOGY TO ENHANCE SUPPLY CHAIN PERFORMANCE		
5	137	CYBER SECURITY AND MARKETING STRATEGIES: PROTECTING CUSTOMER DATA MAXIMIZING SOCIAL MEDIA ENGAGEMENT		
6	66	Investigation of Tensile Strength Performance of 3D Printed PLA, ABS and PET-G Materials for Various Industrial Applications		
7	106	Innovative Practice on Tuberculosis Detection for Pneumonia Diagnosis using Machine Learning		
8	247	FEMALE ENTREPRENEURS – BREAKING THE BOUNDARIES OF GENDER PRECONCEPTIONS AND PIONEERING INNOVATION IN START UPS		
9	90	A Critical Study on Effectively Managing and Addressing the Diverse Needs and Complexities Encountered by Foreign Workers in the Republic of Singapore		
10	101	Leveraging Smart Computing for Effective Crime Spot Alert System		

		TRACK 5		
		SESSION CHAIR:		
		ZOOM LINK:		
S.No	Paper ID	Paper Title	Paper Presenter	Presentation Slot
1	190	AI-Enhanced Stochastic Volatility Modelling: A Comparative Analysis with Black-Scholes and Binomial Models		
2	193	Artificial Intelligence and Robotics Implementation in Finance and Accounting Function of Manufacturing Firms in USA		
3	194	Analyzing Residents Behavioral Intentions to Recycle Electronic Waste: A PLS-SEM Approach		
4	196	Optimizing Solution Strategies for Falkner-Skan Equation: LSTM, FCNN, and Range-Kutta Performance Analysis		
5	198	FRAMEWORK FOR SECURING QUALITY CONTROL PROCESS IN ENGINEERING USING IOT BASED MACHINE LEARNING MODELS		
6	207	Factors Influencing the Intention to Use Financial Technology through Central Bank Digital Currency in Indonesia		
7	254	Sustainable Finance in Action: Pathways to Long-Term Business Growth in India		
8	255	Consumer Preferences towards Online Shopping of Electronic products		
9	175	IOT BASED MACHINE LEARNING ALGORITHMS FOR DATA SCIENCE ON QUALITY CONTROL PROCESS		
10	136	DESIGN OF AN EFFICIENT DIFFUSER FOR HORIZONTAL AXIS WIND TURBINES		

		TRACK 6		
		SESSION CHAIR:		
		ZOOM LINK:		
S.No	Paper ID	Paper Title	Paper Presenter	Presentation Slot
1	213	An Intelligent Self-Balancing Robot with Integrated Object Detection Using MobileNetV2 and PID Control		
2	215	Human-Artificial Intelligence Synergy (AI): Leveraging Generative AI(GAI) to Empower the IT Workforce		
3	216	AI Chatbots in Banking: Exploring Key Factors Influencing Customer Satisfaction through the extended E-SQUAL Model		
4	217	Ultra short pulse generation by Gain Switching in Temperature dependent Electrically Pumped Micro disk Lasers for Medical Applications		
5	218	Deep Learning-Based Automatic Creation of Image and Video Captions: A Review		
6	220	A Comparative Ranking of Developed vs. Emerging Stock Market Indices based on Resilience to Economic Shocks		
7	234	Application of Big Data Analytics in Internal Audit of Banks		
8	235	From Connection to Growth: An Assessment of the Potential of FTTX in India		
9	261	Exploring Emotional Intelligence through Cultural Lenses: A Comparative Study of India and Africa among Athletes and Non- Athletes		
10	176	AI BASED MOBILE MACHINE LEARNING FRAMEWORK FOR EDGE VIDEO ANALYTICS		

		TRACK 7		
		SESSION CHAIR:		
		ZOOM LINK:		
S.No	Paper ID	Paper Title	Paper Presenter	Presentation Slot
1	239	AI BASED ANALYSIS OF HYPERSPECTRAL IMAGES WITH SPECTACULAR EFFICACY IN VIDEO ANALYTICS		
2	242	Geographical Indications for Fruits Quality and their Potential for Rural Development using Machine Learning		
3	243	Comparative analysis of various machine learning models that aim at analyzing Climate Change and Extreme weather patterns		
4	282	TECHNOLOGICAL MITIGATION OF THE IMPACT OF BEHAVIORAL BIASES ON FINANCIAL INVESTMENT DECISION: EVIDENCE FROM INDIA USING A PLS-SEM APPROACH		
5	177	ENHANCING THE EFFICIENCY OF DECLARATIVE AGGREGATION AND LIMIT QUERIES FOR VIDEO ANALYTICS BASED ON NEURAL NETWORKS		
6	256	Sustainability of the Hot Springs Tourism in Nepal		
7	257	A comprehensive survey, management and market strategies for the optimal pricing of electric vehicle battery		
8	258	ROLE OF AI AND MACHINE LEARNING IN CREATING PERSONALIZED MARKETING EXPERIENCES		
9	122	Does the financial contagion event impact India's sustainability?		
10	181	DEEP LEARNING AND MACHINE LEARNING METHODS IN CYBERSECURITY		

		TRACK 8		
		SESSION CHAIR:		
		ZOOM LINK:		
S.No	Paper ID	Paper Title	Paper Presenter	Presentation Slot
1	262	Mapping The Mental Health at the Workplace: A-DASS Examination of Stress, Anxiety and Depression among Employees		
2	277	Predictive Analysis Through Machine Learning: Fatal Road Crashes in Delhi, India		
3	281	Metaverse Adoption Intention of Micro, Small and Medium Enterprises (MSMEs): Unclogging Communication with the Authorities		
4	349	Consumer Feedback Analysis on iPhones: EDA and NLP Model Comparison for Sentiment Detection		
5	300	Pneumonia Detection Using Vision Transformers		
6	337	Hybrid TFT-GRU Time Series Models Optimized by PSO: An Advanced Approach for Financial Data Prediction		
7	246	Analyzing the Impact of Perceived Utility and Perceived Ease of Use on Attitude of the HRMS Software Users		
8	178	SECURE CLOUD BASED PROCESS-ORIENTED TEACHING-QUALITY APPROACH IN HIGHER EDUCATION WITH GENERAL AI		
9	107	Innovative Practices for Reliable Tuberculosis Detection with Deep Learning		
10	151	Gamifying Finance: Enhancing User Engagement and Financial Literacy through Digital Gamification		

		TRACK 9		
		SESSION CHAIR:		
		ZOOM LINK:		
S.No	Paper ID	Paper Title	Paper Presenter	Presentation Slot
1	339	An Intelligent Model for Prediction of Heart Failure with Enhanced Self-Supervised Learning Algorithm		
2	345	Training & Competency Mapping: Focus on Learning & Mentoring		
3	338	Exploring Diverse Approaches to Detect and Diagnose Breast Cancer through Medical Imaging Modalities		
4	263	Mindfulness Meditation in the Workplace: A Path to Job Satisfaction and Harmonious Employee-Employer Relationships		
5	350	Predicting Patient No-shows in Medical Appointments Using Demographic and Health Data		
6	63	AI BASED BRIDGING DISCIPLINES BETWEEN LAW, AI, MANAGEMENT AND PSYCHOLOGY		
7	283	Critical Success Factors for Implementation of Smart Education		
8	243	Comparative analysis of various machine learning models that aim at analyzing Climate Change and Extreme weather patterns		
9	179	COMPREHENSIVE EXAMINATION OF MACHINE LEARNING METHODS FOR PREDICTING SOFTWARE ERRORS		
10	259	The Impact of Mobile Phone Use on Employees Mental Health: Exploring Nomophobia, Social Media Influence, and its impact on Performance at work- A Literature Review		

		TRACK 9		
		SESSION CHAIR:		
		ZOOM LINK:		
S.No	Paper ID	Paper Title	Paper Presenter	Presentation Slot
11	96	Prevention of aggregation of substrate proteins by glyoxal and methylglyoxal without the formation of chemical adducts		