



2nd International Conference on Innovation, Sustainability, and Applied Sciences (ICISAS 2023)
22nd and 23rd February 2025

DAY 1 – 22nd February 2025

Paper Presentations (Parallel Sessions)

Each presenter/paper will have 10 minutes for their presentation, followed by 2 minutes for Q&A

Session 1: Renewable Energy and Sustainable Systems

Date: 22nd February 2025

Time: 11:00 AM-1:15 PM

Room No: Classroom 1

Session Chair: Dr Faizal Hajamohideen, University of Technology and Applied Sciences, Sultanate of Oman

Staff in Charge: Dr Priya Sahadevan, Curtin University Dubai

Paper ID	Paper Title	Names of Authors (*Presenting Author/s)
2025230	Performance analysis of SCBBC with conventional DC-to-DC converter for harvesting solar photovoltaic energy	*S.Kalimuthu Kumar, Santiago Arokiam T, Pandiya Rajan G, Vigneshwari N, Shanmugapriya S, Rajesh K
20252340	Exploring the efficiency of hybrid energy systems with solar power: Integration and management perspectives	*Vanya Arun, S.P. Dwivedi, Asha V, Ginni Nijhawan, Hassan M Al-Jawahry
20252317	Shaping a greener future: Energy auditing and conservation in Maldives	*Sivakumar Thankaraj Ambujam, Salavutheen Noortheen, M Mary Linda, Zahid Jameel
20252332	IoT-enhanced real-time fault detection and monitoring system for three-phase power lines with automated SMS alerts	*Salavutheen Noortheen, Sivakumar Thankaraj Ambujam, Ibrahim Hamdhoon

20252384	Investigation of voltage profile in distribution systems at different penetration levels of solar photovoltaic systems	*Piyush B. Miyani, Kashyap H. Gadhiya, Sanjaykumar G. Prajapati
20252118	Enhancement of power quality in wind power generation-based hybrid standalone microgrid under faults on distribution lines	*J Mary Anita, Roma Raina
20252388	The Importance of Soil Health in Sustaining Life on Land	*Chithirai Pon Selvan
20252195	Optimization of PV panels using IoT and PVsyst	*Lavesh Zuting, Mahesh Raj Nagaraja, Chithirai Pon Selvan, Sampath Suranjan Salins
20252107	Biochar/Ag Nanocomposite: A Corrosion Inhibitor and Self-Healing Solution for Carbon Steel	*Qais Al Shueili, Noura Al Balushi, Taqwa Al Harthi, Noha Al Saidi, Abdulaziz Ali

Session 2: Sustainable Urban Development and Architecture

Date: 22nd February 2025

Time: 11:00 AM-1:15 PM

Room No: Classroom 2

Session Chair: Prof P Rajesh Kanna, Vellore Institute of Technology, India

Staff in Charge: Mr Gabriel Porras, Curtin University Dubai

Paper ID	Paper Title	Names of Authors (*Presenting Author/s)
20252235	Adaptive reuse: A sustainable pathway to architectural historical renewal	*Mohammed Walid, Imene Soussi
20252389	ESG & sustainability in buildings using AI	*Thiruvarul Durai Chelladurai, *Basheer Khan Mohamed Abdul Kader
20252226	A comparative study on physical and mechanical properties of AAC lightweight cellular concrete and foam concrete blocks	*Hadil Obaid Said Al Moqbali, Al Thuraiya Mohammed Salim Al Kharusi, Maitha Nasser Hamdoon Al Mamari, *Ulla Mohammed Abdulrahim Abdullah Al Jabri, Abdulrahim Abdullah Al Jabri, N Aravind, Eman Muhye Adeen Muhye Al Hatali Al Hatali
2025248	Innovative Fashioning Sustainable Service: The Economic and Environmental Impact of Uniform Design in the Hospitality Industry	*Niranjana Menon, Richa Gupta
20252140	Community Development Through Advocacy and Solution-Based Journalism: The Case of Radio Tilonia	*Avneesh Kumar, Soumyadipta Banerjee *Lakhan Raghuvanshi

20252241	AI-Powered Sustainable Cloud Computing: Using ANN and BiGRU for Enhanced Virtual Machine Management	*Esraa Alqasmy
20252196	Graphene in Aerospace: A New Era of Lightweight Durability	*Advaith Sajeev, Mahesh Raj Nagaraja, Chithirai Pon Selvan
20252301	Piezoelectric Material Integration for Real-Time Electric Voltage Generation of Launch Vehicles	Fawzan Mohamed Kareem Navaz, *Kareena Mueenuddin, Sarath Raj Nadarajan Assari Syamala
20252307	Enhanced Smart Energy Management System for Residential Power Consumption using IoT for Maldives	*Nafeena Abdul Munaf, Sivakumar Thankaraj Ambujam, Mohamed Azim, Vengadesh Velu

Session 3: AI and Machine Learning in Healthcare

Date: 22nd February 2025

Time: 11:00 AM-1:15 PM

Room No: Classroom 3

Session Chair: Dr Thirumurugan Shanmugam, University of Technology and Applied Sciences, Sultanate of Oman

Staff in Charge: Dr Clifton Arokiyaraj Stephen, Curtin University Dubai

Paper ID	Paper Title	Names of Authors (*Presenting Author/s)
2025251	Machine learning application in autoimmune diseases: State of art and perspectives	*Jayashree .J, Sree Kala T
2025259	Sustainable AI-driven diagnostic pathways for early autism spectrum disorder detection	Samar Mouti, *Ahmed Humaid Alnaqbi, Mohammed Ali Nawad, Omar Khalil
20252181	Machine learning-driven innovations in EEG signal analysis: An extensive exploration of band and channel selection	*Ashvini Avinash Bamanikar, Ritesh Patil, Lalit Patil, Surendra Mahajan
20252263	Automated brain tumor analysis from MRI scans via convolutional neural networks	*M.A.H. Farquad, Habeeb Shahkhan, Vishwesh Akre
20252349	DRU-Net: An enhanced dynamic residual U-Net model for accurate brain tumor classification	*Saliha Bathool, Ashvini Alashetty
20252370	NADBA: An AI-driven deep learning approach for early skin cancer detection	Benson Raj, *Humaid Abdalla Alnaqbi , Hassan Alkhaaldi, *Saeed Al Ali, Abdelaziz Alnaqbi
20252248	Lung cancer classification with generative adversarial augmentation and graph attention algorithm	*Gnana Jeba Das Dasaian, Nafeena Abdul Munaf, Mausoom Mohamed Fulhu, Sivakumar Thankaraj Ambujam and Salavutheen Noortheen
20252254	AI-enabled healthcare assistant for remote prenatal care	Savithri M, *Vijayalakshmi S, Alwin Joseph, Gunavathi R

20252172	AI-driven multi-modal data fusion and computer vision for early detection and monitoring of pediatric neurological and developmental disorders	*M.S.Nidhya
20252222	Innovative Tools for AI-Driven Scalp and Hair Assessment: Evaluating Mobile Application Efficacy and User Experience	Faizal Hajamohideen, *Amaal Mohammad Abdullah Al Maqbali, Rayyan Abdullah Said Al Handasi, Mahzabee Noorul Hasan Shams Al Dhuha, Mubassareen Noorulhasan Shams Al Dhuha

Session 4: Sustainable Education and Human Capital Development

Date: 22nd February 2025

Time: 11:00 AM-1:15 PM

Room No: Classroom 4

Session Chair: Prof Kahtan Aziz, Anglia Ruskin University, United Kingdom

Staff in Charge: Dr Nidhi Sehgal, Curtin University Dubai

Paper ID	Paper Title	Names of Authors (*Presenting Author/s)
20252137	Eco-education: Developing effective partnerships	*Arpana Sharma
20252342	Evaluating the impact of higher education on sustainable development goals (SDGs) achievement in India	*Subburaj Alagarsamy
2025215	Readiness of trainee counselors for dealing with diverse populations in school settings in India	*Swati Pathak, *Sonali Mukherjee, *Saurabh Srivastava
20252306	The impact of technology-enhanced language learning tools on vocabulary acquisition in EFL learners	*Shaheena Jaleela Faizal, Kawkab Abdulaziz Al Balushi, Faizal Hajamohideen
20252271	A survey on language-speaking disabilities of non-native speakers: Insights and applications of artificial intelligence	*Shaheena Jaleela Faizal, Kawkab Abdulaziz Al Balushi, Faizal Hajamohideen
20252336	Phonological awareness and AI in ESL education: Mitigating epenthesis and emphasis errors through etymology-informed training	*Shaheena Jaleela Faizal, Kawkab Abdulaziz Al Balushi, Faizal Hajamohideen
20252182	Enhancing accuracy in text-to-sign language translation through comparative analysis of CTC and HMMs	Kushal Sai M, Deva Priya W, Srihari T, *Trisha D A
20252381	Evaluating Students' Perception of SDGs through University-Led Campaigns	*Rifa Anwar, *Vishakha Sharma, *Raichel Pereira and *Ayesha Ansar
20252368	Utilizing Neuromorphic In-Memory Computing, Low-Power, And Real-Time Medical Diagnostics For Use In Resource-limited Environment	*Sreeja S Kumar, Jagadish Nayak

Session 5: AI in Environmental Monitoring and Conservation

Date: 22nd February 2025

Time: 11:00 AM-1:15 PM

Room No: Classroom 5

Session Chair: Dr Ankita Awasthi, IILM University, India

Staff in Charge: Prof Anitha Menon, Curtin University Dubai

Paper ID	Paper Title	Names of Authors (*Presenting Author/s)
20252129	Analyze leaf species using SIFT and fast library for nearest neighbors algorithm by hyperparameter tuning	*K.Arunkumar, Leninisha S, Sandhya M
20252145	Cryptocurrency's Economic Impact: Unraveling the Dynamics Between Bitcoin Values and India's Growth	*Lija Jacob, Vijayalakshmi S, Thomas K T, Sharon Susan Thomas
20252191	Flood Prediction using machine learning: Improvising Flood Prediction Analysis using Dynamic Wave Routing and Data-Driven Hydrological Approach	*B.Abinash
20252161	Elevating Precision and Performance in Football Match Predictions through Advanced XG Boost comparing over KNN Algorithmic Techniques	*B.Karthik, Vimal V R
20252318	Hardware Accelerators using FPGA for Low Earth Orbit Space Debris Detection Using Deep Neural Network Models	*D.Somasundaram, Nila R
20252399	LoRa-Enabled IoT Systems for Smart Cities: A Comparative Analysis of Health Monitoring and GPS Tracking Applications in Urban Environment	*Shaista Tarannum, Jyothi A P, Usha S M, Madhushree
20252402	Hybrid Computational Intelligence Model for Energy Efficiency in Wireless Sensor Networks	Shaista Tarannum, Bhavatarini N, *Jyothi A P, Praneetha G N
20252367	Adaptive Neuro-Fuzzy Control for Optimizing Oxygen Transfer in Wastewater Treatment Plants: A Data-Driven Approach	*Aparna K G, R Swarnalatha

Session 6: Imaging and Diagnostic Innovations: Transforming Healthcare for Better Outcomes

Date: 22nd February 2025

Time: 10:45 AM-1:15 PM

Room No: Classroom 6

Session Chair: Dr N Deepa, Saveetha Institute of Medical and Technical Sciences (SIMATS), India

Staff in Charge: Ms Shahra Jafar, Curtin University Dubai

Paper ID	Paper Title	Names of Authors (*Presenting Author/s)
20252101	FMD-Net: A Hybrid Deep Learning Framework for Automated and Sustainable Detection of Fetal Movements in Ultrasound Imaging	Seeni Mohamed Aliar Maraikkayar S M, Tamilselvi R, Parisa Beham M, *Shanmuga Priya K, Gayathri M
2025286	Assessment of Risk of Osteoarthritis In Knee Using Thermal Images	Sabah Afroze A, Tamil Selvi R, Parisa Beham M, *Judith J, Sathiya Pandiya Lakshmi S
2025240	Sustainable Solutions for Automated Classification and Segmentation of Kidney Cysts in CT scans Using Leaf Gradient-Based Neural Architecture Search (LGBNAS)	*S.K.Aruna, Deepa N, Devi T
20252117	Early Detection of Poly Cystic Ovary Syndrome using Ultrasound Ovary Image – A Convolutional Neural Network Approach	*Reka S, Suriya Praba T, Naga Nithin Reddy
20252287	Advancing Fetal Brain Segmentation: A Diffusion Model Approach with Explainable AI Insights	*Nilima Gaikwad, Vijayalakshmi S.
20252289	Comprehensive Analysis on Enhanced Early Prediction of High-Risk Colorectal Cancer Patients Using Deep Learning Techniques on Medical Imaging Data	* Vandana R Bais, Vijayalakshmi S
20252279	Innovative Use of Convolutional Neural Network for Sustainable and Automated COVID-19 Diagnosis from Chest X-Rays	* Qudus Muritala, Swathi Ganesan, Sangita Pokhrel, Ganapathy Kumar
2025249	Heart Diseases Analysis and Prediction System using Machine Learning	*Sumathi S, Kodhai E, Bhuvanewari E, Swathilakshmi V, Rama Krishna Tummala
20252255	Sign Language Translator Application for Speech and Hearing Impaired	*C.N.S.Vinoth Kumar, Naresh R, Deepa N, Lilly Raamesh
20252282	Enhancing Accuracy of 48x48 Dimensional Images Using CNN	*Trikalagga Saha, Gunavathi R, Milan Chakraborty
20252393	Economic priorities for achieving sustainable housing in less developed countries – Sudan as a case study	*Ayman Khalil Abdelgadir, Binumol Shahulhameed, Maria Rajesh Antony, Hasina Al Hinai, Wasal Al Khanbashi, Muna Al Issaei

Session 7: Sustainable Technologies and Industrial Innovations

Date: 22nd February 2025

Time: 1:15 PM- 3:15 PM

Room No: Classroom 6

Session Chair: Dr G Soniya Priyatharsini, Dr. M. G. R. Educational & Research Institute University, India

Staff in Charge: Dr Benita Veronica, Curtin University Dubai

Paper ID	Paper Title	Names of Authors (*Presenting Author/s)
20252153	Determination of Optimal Control Parameters for positioning Nanocomposite based Redundant Articulated Robot Joints by Sustainable Simulation Method	*M. Saravana Mohan, Thenmozhi G, Swaroop Ramaswamy Pillai, Samuel Ratna Kumar P S, Madindwa Mashinini, Vasantharaj C
20252410	Simulation-based performance analysis for Data-Driven Decision Making in the Restaurant Business: A Comparative Study of Q-PCA and PCA	*S.Ranjana Devi, Amudha Amudha, Nisha Soms, Mary Anita
20252160	Firmware Over-The-Air (FOTA) Update for Industrial IOT solutions	*Meenambigai V, Pabitha Muthu P, Tamilselvi R, Parisa Beham M, Nandhineeswari S
2025237	Design of Plant Layout for Manufacturing using Machine Learning Approach	Raju G S, S. Paul Vizhian,*Vijay Kumar M, Pradeep Kumar V G
2025253	TECHSUST - a bridge between technology and sustainability	*Meenakshi Pillai, Robin Britto V
20252326	The Progression of Linux Init Systems	*Akash Vimalraj,
2025289	Industry 5.0: An Overview of Technologies, Sustainability Development Goals, Opportunities and Challenges	*G. Vijayakumari, Praveenkumar Ramasamy, Saranya R, Vijayakumar S D, Akhil John Mampilly
20252119	Urban Walkability: Insights from Neighborhood Studies in New Delhi	Prateek Dhasmana, *Niva Turna
20252127	Evaluating the Severity of Pedestrian Accidents in India: An Innovative Study of Statistical and Machine Learning Models	*Saurabh Jaglan, Atul Garg, Aman Ahlawat, Sachin Dass, Arti Chouksey, Sunita Kumari, Pankaj Kumar, Yogesh Chhimpa
2025283	Digital platform, network, and innovation ecosystem for the circular economy	*Andrea Rey, *Anna Prisco
20252165	Effect of air velocity & water temperature on a mechanical-draft cooling tower performance	*Sampath Suranjan, Shiva Kumar, S.V. Kota Reddy, Mahesh Raj Nagaraja
20252154	Sustainable robotic e-waste recycling system	*Selva Prabu Rajah, Jey Deeksith Rajesh Kumar Sharmila

Lunch (1:15 PM to 2:15 PM)

Keynote Addresses

Date: 22nd February 2025

Time: 02:30 PM to 03:20 PM

Venue: Mohammed bin Rashid Hall

MC: Ms Lanita Noronha

Time Slot	Event
02:30 PM – 02:55 PM	Keynote Address Ms Renisha Winston, Founder and Chairman, i-manager Publications
02:55 PM – 03:20 PM	Keynote Address Prof Balamurugan Balasamy, Associate Dean – Academics, Shiv Nadar Institution of Eminence, India

Coffee/Tea (03:20 PM to 03:30 PM)

Session 8: Sustainable Materials and Circular Economy

Date: 22nd February 2025

Time: 3:30 PM- 5:30 PM

Room No: Classroom 1

Session Chair: Dr Nishu Ayedee, Confab 360 Degree, India

Staff in Charge: Ms Ajita Nayar, Curtin University Dubai

Paper ID	Paper Title	Names of Authors (*Presenting Author/s)
20252204	Discarded polystyrene plastics waste used as a gel time modifier additive for polyurea coating and promotes circular economy	*Murugesh Shivashankar and Arun Kumar Awasthi
20252132	Biochar and bio-oil production by hydrothermal reactor (HTL) using sonicated marine algae	*R. Thirumalai Kumar, Murtadha Al Ajmi, Ali Al Maqbali, Mohsin Al Umairi, Al-Mutassim Al-Khalifin and Jaikumar. V
2025232	High-temperature oil spill cleanup: Polyetherimide electrospun mats for performance and sustainability	*Rosemary Thomas
20252288	Empowering coastal communities: Transforming plastic waste into sustainable toys using 3D printing	Yejnakhshari Meghana K, Yellina Sribhargav, Radhika N, Sabarinath S, Renjith Mohan, *Sujni Paul
20252272	Characterization and development of IGA-MMCs: A pathway to eco-friendly automotive materials	*Pradeep Kumar Krishnan, Abdulshafi Mohammed Al Abri, Rajthilak Krishnan Rajan
20252179	Enhanced tensile strength of red mud-polyester composites reinforced with chemically treated natural fibers	* A. VASUDEVAN, Vigneshwaran Shanmugam, Muthuselvan Balasubramanian, Arumugaprabhu Veerasimman, Uthayakumar Marimuthu
20252374	Experimental investigations of the tensile and flexural characteristics of 3D-printed polyether ether ketone (PEEK) for biomedical applications	*J Senthilkumar, Vasudevan Alagumalai
20252290	Development of an AI-enhanced Arduino-based smart planter system	*Sujni Paul, *Mohammad Abdunasser Alshamsi
20252375	Intelligent wear detection in CNC drill bit using Hilbert Huang Transform for feature selection and CNN for fault classification	*Amuthakkannan Rajakannu, Ramachandran KP, Vijalakshmi K, Srirajkavin AV, Moammer Al Tobi

Session 9: Intelligent Systems for Sustainable Finance, Economic, And Business

Date: 22nd February 2025

Time: 3:30 PM- 5:30 PM

Room No: Classroom 2

Session Chair: Dr Anuj Kumar, Rushford Business School, Switzerland

Staff in Charge: Dr Mahwish Anjam, Curtin University Dubai

Paper ID	Paper Title	Names of Authors (*Presenting Author/s)
20252252	Advancing sustainable fraud detection in finance: A comprehensive survey of AI-driven techniques, innovations, and challenges	* Dina Abdelnaser Mohammed, Anjitha Paul
20252362	The dynamic evolution of finance: Examining key functions, technological innovations, and strategic developments in the modern business and economic landscape	Amudha S, Parthiban S, *Anjali Tewari Mamgain
20252315	Exploring external influences on crypto prices: A multi-analytical approach using correlational analysis, Granger causality & multiple linear regression	*Zaheda Daruwala
20252212	Improving performance in telco client churn using random forest algorithm in comparison with logistic regression algorithm	*Krithik Parthasarathi
2025258	Sustainable value chains in organic production of spices: Value chain governance and competitiveness validated through structural equation modeling	*Hena M, *Nadia Sha
20252338	Refining the Census Income Prediction through the Development of Random Forest Regressor and Assessing Performance with Gradient	*Siva Sankar, Manjula
20252435	AI Powered Robot (Short Circuit)	Mohammed Hussain, Mubashshira Khilji, Aaliya Khalil Khatib, Minn Thit Kyaw, *Shahra Jafar and Benita Christopher

Session 10: Sustainable Waste Management and Environmental Solutions

Date: 22nd February 2025

Time: 3:30 PM- 5:30 PM

Room No: Classroom 3

Session Chair: Dr Kuldeep K Saxena, Lovely Professional University, India

Staff in Charge: Ms Bhavika Khetani, Curtin University Dubai

Paper ID	Paper Title	Names of Authors (*Presenting Author/s)
2025223	Waste management through a psychological lens: Driving health and sustainability goals	*Vertika Goswami, Arpita Agarwal
20252128	Marine macroalgae as a sustainable solution for refinery wastewater treatment in Oman	*Nabila Nasser Said Al Rashdi, M. Geetha Devi, Ania Escudero, Colin Hunter, Mohammed Al Abri
2025298	Enhancing industrial wastewater treatment: Advanced nanomembranes from cellulose/GO particles aligned with Oman Vision 2040	*Noura Al Balushi, Kate McAulay, Mark Spicer, Geetha Devi, Mohammed Al Abri
2025299	Removal of organic pollutants using tartaric acid-modified biomass and clay-based adsorbents	*Anteneh Mesfin Yeneneh, Tahereh Jafary, Muna Al Hinai, Jimoh Adewole, Khadija Al Balushi
20252123	Advancing environmental monitoring with IoT-based low-cost MFC biosensors for wastewater COD measurement	*Maira Al Qaidi, Tahereh Jafari, Anteneh Mesfin Yeneneh, Muna Al Hinai
20252337	Smart biomedical waste management systems: Leveraging artificial intelligence for sustainable practices	*Ankita Awasthi, B Rajalakshmi, Ginni Nijhawan, Haider Alabdeli, A. Kakoli Rao
20252286	A novel smart framework for forest vegetation sustainability through remote monitoring	*Vijayalakshmi S, Lija Jacob, Alwin Joseph, Gayathri S P
20252299	299 - Exploring the Benefits of Exporting Fruits and Vegetables from India to the UAE and Strategies for Waste Reduction and Resource Allocation	*Pallavi Nilesh Patil

Session 11: Innovations in Cybersecurity and Data Protection

Date: 22nd February 2025

Time: 3:30 PM- 5:30 PM

Room No: Classroom 4

Session Chair: Dr Nafeena Abdul Munaf, Villa College, Maldives

Staff in Charge: Mr Mahesh Nagaraja, Curtin University Dubai

Paper ID	Paper Title	Names of Authors (*Presenting Author/s)
2025291	Automated anomaly behavior detection and response system for robust website security	*V R Siva, Durga R
20252173	Analysis on detection and prevention techniques for data tampering and replay attacks in IoT systems	*M.S.Nidhya
20252236	Unmasking digital impostors: A machine learning framework for social media profile detection	Uma K, *SANDEEP M, Thirumurugan Shanmugam, Ramaprabha K.P
20252270	Unmasking the shadows: AI-driven analysis and defense against HTTP RAT Trojans	*Maryam Al Shibili, Faizal Hajamohideen, Vimbi Viswan, Karthikeyan Subramanian, Noushath Shaffi, Shimaz Khan Shaik
20252353	Hybrid intrusion detection system in fog computing	*Vivek Chandrasekaran, Srivarshan V, Sudikshan Senthilkumaran, Thanga Revathi S
20252189	Advancing cryptographic security: A thorough evaluation of enhanced Hill Cipher algorithm compared to transposition cipher	*K.Phanindra
20252190	Improved cryptographic security and performance analysis using an enhanced random substitution cipher algorithm compared to Caesar Cipher	*G.Kiran Kanth Reddy
20252432	Exploiting AI Defenses: The Evolution of Adversarial Machine Learning Attacks in Cybersecurity	*Bhavika Khetani and *Shahra Jafar
20252434	Hardening Containerized Environments: Reducing Vulnerabilities through Image Updating and Minification	*Bhavika Khetani, *Shahra Jafar and Ameeta Deshmukh

Session 12: Sustainable Materials and Green Technologies

Date: 22nd February 2025

Time: 3:30 PM- 5:30 PM

Room No: Classroom 5

Session Chair: Dr Vanya Arun, IILM University, India

Staff in Charge: Dr Mary Anita, Curtin University Dubai

Paper ID	Paper Title	Names of Authors (*Presenting Author/s)
2025219	Performance analysis of solar energy systems utilizing supercritical CO ₂ as a working fluid: A numerical study	Vignesh Boopalan, Kahtan Aziz, Senthil Kumar Arumugam, *P Rajesh Kanna
2025246	Reduction of drag force using alternative materials and adjusting thickness in aircraft wingspan	*Aymen Ben Abdelmoumen, Chithirai Pon Selvan, Mahesh Raj Nagaraja
20252112	A comparative investigation on the long-term durability performance of fly-ash-based geopolymers concrete and conventional concrete in chloride environment	*Atul Garg, Saurabh Jaglan, Aman Ahlawat, Sachin Dass, Sunita Kumari, Arti Chouksey, Pankaj Kumar
20252350	Effect of B ₄ C/SiO ₂ reinforced Al7075 hybrid Aluminum composites	*Nithishkumar P, Anbuhezhiyan Gnanasambandam
20252351	An Analytical Study on the Impact of Line and Grid Infill Patterns on the Tensile Strength Characteristics of Fused Filament Fabrication (FFF) Manufactured Thin-Walled PEEK Specimens	Vinoth Srinivasalu, Vasudevan Alagumalai, Senthilkumar Jadamuni, Deepak A, Navin Kumar, *Aamil Asharaf
20252398	Evaluating the Performance of Glass Powder as a Novel Soil Stabilizer in Geotechnical Engineering	*Kiran Kumar Poloju, Hussin Yahia, Ghadeer Adai Saif Al Jardani, Adams Joe, Adil Nadeem
20252334	Thermal Analysis on Metal matrix and Zirconium dioxide for Deep Groove Ball Bearing	* Kuldeep K Saxena, Rakesh C, A Awasthi
20252429	Overcoming Start-up Challenges in Innovation-Driven Environments: A Systematic Literature Review	*Farzaneh Eslamloo, Payam Shojaei, Pouya Moshtaghi, Aliasghar Kazempourfard, Shaghayegh Soleymani, Mahsa Montazeri

Session 13: Machine Learning and Data Analytics: Driving Innovation Across Industries

Date: 22nd February 2025

Time: 3:30 PM- 5:30 PM

Room No: Classroom 6

Session Chair: Dr N Deepa, SRM Institute of Science and Technology, India

Staff in Charge: Dr Benita Veronica, Curtin University Dubai

Paper ID	Paper Title	Names of Authors (*Presenting Author/s)
2025278	Enhanced Potato Disease Detection and Crop Prediction using AI/ML Algorithms	Naresh R, *Sahil Kumar Srivastava, Ayus Bhaumik, Deepa N
2025251	Machine Learning Application in Autoimmune Diseases: State Of Art And Prospectives	*J.Jayashree, Sree Kala T
20252258	Studies of Self-Adjusting Nonlinear Polynomial Network for Machine Learning	*Nikhil P R, Jibrael Jos
20252202	A Comprehensive Review on Voice-Based Emotional State Detection Using Llm And Deep Learning Models	* Nikale Preeti Uttam, Purnendu Bikash Acharjee, Bipllab Roy and Margaret Salve
20252359	Predictive Customer Engagement: Exploring the Role of AI in Salesforce Marketing Cloud for Multi-Channel Campaigns	*Shalini Polamarasetti, Harshini Gadam and Hemadri Ravilla
20252116	Leveraging a Innovative Collaborative Ensemble Decision Trees for Professional Stress Prediction and Classification	*R Ragul, Devi T, Deepa N
20252227	Forecasting and Analyzing Renewable and Non-renewable Energy Generation and Demand Patterns using Machine Learning and Deep Learning Techniques	*Vaduguru Venkata Ramya, Ashwini N Shinde, Gautam Dasaka
20252314	Intelligent Design Assistant: Optimizing Machine Specification Prediction with Machine Learning	Savita Jadhav, Priyanka Patil, *Vinit Rajendra Chaudhari
20252369	A Review of Mult objective Digital Filter Design Using Optimization Algorithms	*Sumeet Gupta, Balasaheb Agarkar
20252423	Bridging the Gap: Integrating Batch and Streaming Data Paradigms for Holistic Analytics in the Age of Real-Time, Predictive, and Historical Insights	*Sainath Muvva
20252211	Treatment of vegetable oil wastewater using nanocomposite membranes system and smart engineering for sustainable development	*Wed Rashed Salem AL Alawi, Thr Mohammed Ibrahim Al-Ajmi, Muna Awadh, Senthilkumar Ramalingham
20252376	Essential oil extraction from Rosmarinus officinalis: Integrating RSM-machine learning modeling and genetic algorithm optimization	*Abdulaziz Abdullah Sulaiman Al-Shuraiqi, Parimal Sharad Bhambare, Varghese Manapallil Joy, Sudhir C.V., Dinesh Keloth Kaithari

DAY 2 – 23rd February 2025

Date: 23rd February 2025

Time: 9:15 AM to 10:15 AM

Venue: Sheikh Mohammed bin Rashid Hall

MC: Ms Lanita Noronha

Time Slot	Event
09:15 AM – 09:55 AM	Keynote Address Associate Professor Ben Milbourn, Curtin School of Allied Health, Curtin University, Australia Prof Rachel Sheffield, School of Education, Curtin University, Australia
9:55 AM – 10:15 AM	Keynote Address Prof Mark Rosen, Faculty of Engineering and Applied Science, Ontario Tech University, Canada
Coffee/Tea (10:15 AM – 10:30 AM)	

Panel Discussion

Date: 23rd February 2025

Time: 10:30 AM to 11:30 AM

Venue: Sheikh Mohammed bin Rashid Hall

Topic: Impact of AI on Research

Panellists:

- 1. Mr Daniel Adkins**
Group CEO, Transnational Academic Group
- 2. Ms Farah Alkhateeb**
Founder, eGreenBadge
- 3. Mr Gowri Shankar Sivabala**
Educator | Entrepreneur | Engineer | Researcher
CAIO, FAB Ventures Group
- 4. Mr Hassan Habib**
Board Advisor, Author, AI,
Transformation & Engagement Architect, PCL Learning
- 5. Dr Immanuel Moonesar**
Professor of Health Policy and Systems Research
Mohammed Bin Rashid School of Government

Moderator:

- Dr Nidhi Sehgal, Head of School – Business and Humanities, Curtin University Dubai**

Session 14: Innovative Approaches in Technology, AI, and Sustainability

Date: 23rd February 2025

Time: 08:30 AM to 10:30 AM

Room No: Classroom 6

Session Chair: Dr Shashank Khurana, BITS Pilani Dubai

Staff in Charge: Ms Shahra Jafar, Curtin University Dubai

Paper ID	Paper Title	Names of Authors (*Presenting Author/s)
20252130	Stress-Strain Behavior of Fire protected RC Cylinders under elevated temperature and rapid cooling	*Ruba Palanivelu and Bhuvaneshwari Panchanatham
20252352	Scalable and sustainable customer service chatbot with Amazon Lex and Amazon Lambda for AI solutions	*Gandam Sai Ram, Ande Dileep Sai, Naga Venkata Siva Nikhil Maradani, Jujjavarapu Sujan Chowdary, Annapurani K
20252386	Tribological behavior of Mo4%Sn composite nanocoating prepared by electrodeposition method	*Adhi Kesavan T., Dhayanithi R., Mohamed Kamaludin S., Raja K., Senthil Kumar M. S., Clifton Stephen
20252409	Tribological behaviours of Ni-Al ₂ O ₃ /4%Sn composite coating by electrodeposition technique	*A.R. Someshwaran, P. Suryaprakash, T. Tamilarasan, P. Tamilarasu, R. Thirunavukkarasu, Priya Sahadevan
20252395	AI-Driven Crop Yield Prediction Based on Soil Health Analysis	*Prathamesh Jadhav, Shryesh Thube, Sakshi Bansode, Janhavi Barbind, Ajay Gawali, Sachin Chaudhari
20252281	Bound for Secure Vertex Cover Pebbling Number of a Hypercube Towards Sustainable Transportation for Circular Economy	S Sarah Surya, *Lian Mathew, Diya Mathew
20252225	Predicting Tesla Stock Movements: Evaluating the Performance of Different Models	Savithri M, Vijayalakshmi S, *Jayesh Chaudhari
20252228	A Comprehensive Study on Potato and Tomato Disease Prediction Using Deep Learning Techniques	*Sandeep Kumar, Gunavathi R, Milan Chakrabort
20252237	Cryptocurrency's Economic Impact: Unraveling the Dynamics Between Bitcoin Values and India's Growth	*Aditi Wani, Savithri M, Avichal Sharma, Lija Jacob, Lawrence Bansode

20252230	Enhancing Underwater Archaeology with Computer Vision: A Deep Learning Approach for Shipwreck Detection	*Ansel Paul, Dr. Gunavathi R, Milan Chakraborty
20252238	An Empirical Study of Indian Monsoon Effects on Energy Demand and Stock Market Performance	*Tiny S Palathara, Elizabeth Sunny
20252259	Promoting Environmental Sustainability and Language Proficiency through Virtual Reality: A Synergistic Approach	*Ms Jerly. J, P. Sathya
20252198	Advanced Cloudburst Prediction using Machine Learning	Sujatha Elumalai, * Varshitha A T, *Subash Raj B, *Praveen P V

Session 15: Digital Society: Emerging Trends and Challenges from Behavioral and Psychological Perspectives

Date: 23rd February 2025

Time: 11:30 AM-1:15 PM

Room No: Classroom 1

Session Chair: Dr Lija Jacob, CHRIST (Deemed to be University), Pune, India

Staff in Charge: Ms Shelley Lawson, Curtin University Dubai

Paper ID	Paper Title	Names of Authors (*Presenting Author/s)
2025239	Impact of Modern Dating Trends in Dating Apps on Self-Esteem and Body Image	*Shreeya Mehra, Moitrayee Das, Sairaj Patki
2025254	Breaking Down Barriers: Understanding Sociological Factors influencing Physical Inactivity Among Overweight and Obese Students in Urban India	*R Arul Selvan, Suriya S
20252102	The impact of single-mother households on adolescents' mental health and well-being in Chennai, Tamil Nadu	* Aarthu Jonathan Kennedy
20252149	From Student to Scholar: Exploring Career Developmental Challenges for Women in Psychology	*Ayah Aqtash, Khym De Barros, Elizabeth Roby, Sara Abukmeil, Eyman Hamad, Yara el Rifai, Sara Hachem, Fatma al Malik, Marya Badran, Neimat al Karib, Dana Ammary, Maryam al Falasi, Nouran Azzam, Madiha Ahmed

20252215	Navigating the Nexus of Cognitive Distortions, Dark Triad Traits, and Interpersonal Difficulties in Substance Users: An In-Depth Exploration	*Razia Anjum, *Saima Khan
20252343	Assessing the impact of gaming on Psychological and Physical Health: Users' perspective	*Deepika Gaur, Akanksha Khanna, Sandhya Ravisankar, Komathi C, Swapna S Nair
20252156	AI recommendations: A systematic literature review and future research agenda	*Shahira El Alfy, Malini Nair, Abdul Ghafar
20252431	Understanding the influence of malicious and non-malicious gossiping on organizational politics: A causal study	*Zubair Azam, *Nidhi Sehgal
20252361	Exploring the Influence of Remote Work on Employee Productivity and Job Satisfaction in the Canadian Technology Industry	Jasmeen Kaur, Mehroz Nida Dilshad, *Nidhi Sehgal

Session 16: Innovations for Business Sustainability: Strategies for Long-Term Growth and Resilience

Date: 23rd February 2025

Time: 11:30 AM-1:15 PM

Room No: Classroom 2

Session Chair: Dr A Deepak, Saveetha Institute of Medical and Technical Sciences, India

Staff in Charge: Mr Gabriel Porras, Curtin University Dubai

Paper ID	Paper Title	Names of Authors (*Presenting Author/s)
2025245	Evaluating the Impact of Social Media Adoption on Firm Performance: A Combined TOPSIS and Fuzzy DEMATEL Approach	*Muneeba Khan, Saboohi Nasim
20252104	Job Satisfaction Dynamics of IT Application Owners in Agile Frameworks	*Damian Dora Ioana, Catalina Radu, Andreea Barbu
20252138	Sustainability Leadership: Developing Human Capital to Drive Social Impact	*Arpana Sharma
20252184	The Impact of Service Robots on Employee Turnover: Exploring the Role of Job Insecurity and Organizational Support	Laksh Khanchandani, *Kani Ahmadpour, Nidhi Sehgal
20252250	Building Sustainable, Resilient, and Adaptable Workplaces: A Framework for Integrating AI-Driven Personalization, Evolving	*Debapriya Sengupta Roy

	Skills Strategies, Emotional Intelligence, DEI, and Generational Dynamics in UAE's Industry 5.0 Transition	
20252157	Challenges, Measures, and Solutions for Sustainable Business Growth in Dubai	*A. Mohamed Mohideen, Sajiyya Meera
20252422	Integrating Family Support into Employee Engagement Models: A Conceptual Framework for a Sustainable and Resilient Workforce	*Mahwish Anjam, Premila Koppalakrishnan
20252109	Language as a sales tool: The power of multilingual pricing tags	*Ing. Pavol Lipták, *Mgr. Filip Kalaš
20252246	Transforming Student Orientation with Virtual Reality: Enhancing Readiness, Confidence, and Engagement	*Mahwish Anjam, Noor Ulain Rizvi

Session 17: Advances in IOT, Cybersecurity and Blockchain

Date: 23rd February 2025

Time: 11:30 AM-1:15 PM

Room No: Classroom 3

Session Chair: Dr M Sandhya, VIT, Chennai Campus, India

Staff in Charge: Dr Naziha Ali Raza, Curtin University Dubai

Paper ID	Paper Title	Names of Authors (*Presenting Author/s)
2025294	Maximum Support Priority Queuing Approach Using AI-Powered Swarm Intelligence Technique for Resource Allocation and Load Balancing for Webserver in Cloud	*DANIEL RAJASINGH V M, Durga R, Daniel Rajasingh V M
20252242	AI-Enhanced Security Framework for Blockchain	*Brinal Colaco, Nazneen Ansari
2025293	Improving Carpooling Security Using Blockchain-Based Decentralized Secure Ride-Sharing System	*J. WESSLY, Durga R
20252394	The AI Agent: Integrating LLM Agents into Supply Chain Systems	*Mubarak Abdul Salam, Elakkiya R
20252210	Cybersecurity threats and risk mitigation in the media industry	*Akhil John Mampilly, Divya Midhunchakkaravarthy

20252230	Enhanced Smart Energy Management System for Residential Power Consumption using IoT for Maldives	Mohamed Azim, *Nafeena Abdul Munaf, Vengadesh Velu, Sivakumar Thankaraj Ambujam
20252282	Enhancing accuracy of 48x48 dimensional image using CNN	*Trikalagga Saha, Gunavathi R, Milan Chakraborty
20252297	Integrating Sustainability with Smart Technologies: The Pathway for a Resilient 21st Century Environment	Avr Akshaya, N Chidambaram, *John Steward Raj J
20252339	Real-Time Drowsiness Detection Using DCCNN, Facial Landmark Detection and EAR	*Sairam Santosh Babu Konda V S, Nagarajan G, Chandan Karanam, Sai Prathap Reddy Chintam Reddy, Ganga Pavitra Nagella

Session 18: Innovations in Manufacturing: Enhancing Efficiency, Precision, and Sustainability

Date: 23rd February 2025

Time: 11:30 AM-1:15 PM

Room No: Classroom 4

Session Chair: Prof K M Ahamed Sheriff, Sethu Institute of Technology, India

Staff in Charge: Ms Liz Dacalan, Curtin University Dubai

Paper ID	Paper Title	Names of Authors (*Presenting Author/s)
2025263	Effect of Cryogenic Treatment on Tool Wear, Surface Roughness, and Cutting Forces in Machining Custom 450 Stainless Steel	Devi Chokkalingam, Siva Kumar Mahalingam, Nagarajan Lenin, *Balasubramanian K, Krishnaveni S
20252159	Analyzing the capacitance and the voltage characteristics of nickel and graphene (electrode) with boron-based spring mass model (dielectric) by varying the electrode length in MEMS	*Devasree.S.V, DNarendran S
20252280	Experimental Investigation on Mechanical and Metallurgical Characterization of 2014 and 2024 Aluminum alloys using Friction Welding	Melvin Jones, *Kousheki N, Golden Renjith Nimal
20252294	Intelligent Predictive Control Strategy for Hall-Héroult Process in Aluminum Smelting Industry: A Review	*Afsal Khan S, Swarnalatha R
20252372	Investigation of the Effect of Novel Liquid Nitrogen Cooling on Cutting Forces in Milling of Magnesium alloy in Comparison with Dry Machining	Raja Vignesh. S, Navin Kumar B, Senthilkumar Jadamuni, Vasudevan Alagumalai, Deepak A, Sakthivel T. G, *Basheera

20252373	Investigation of the Effect of Novel Cryogenic Machining on Cutting Forces in Milling of Inconel 718 in Comparison with Dry Machining	Vommena Aashrith, Navin Kumar B, Vasudevan Alagumalai, Senthilkumar Jadamuni, Deepak A, Sakthivel T. G., *Narmadha Mohan Raj
20252319	Performance Analysis of the Optimized steel I-beam section from Eurocode 3	Rahma Rashid Al-Fahdi, *Sachin Kuckian, Hussin Yahia
20252350	Effect of B4C/SiO2 reinforced Al7075 hybrid Aluminium composites	*Nithishkumar P, Anbuhezhiyan Gnanasambandam
20252251	A Machine Learning-Based Framework for Customer Churn Prediction	Santhosh Jayagopalan, *Abdallah I A Rok
20252148	148 - Screw Defect Detection Using Xception Algorithm Over ResNet50 for Better Accuracy	*T. Nithin Babu, T Rajesh Kumar, A Deepak
20252164	A Novel License Plate Recognition System Using YOLO in Comparison with Histogram of Oriented Gradient Algorithm for Better Accuracy	Jigunu Shaik, *W.Deva Priya, Srihari T

Session19: AI and Machine Learning Applications in Healthcare and Neuroscience

Date: 23rd February 2025

Time: 11:30 AM-1:15 PM

Room No: Classroom 5

Session Chair: Dr Sanga Mithra S, Vinayaka Mission's Law School, India

Staff in Charge: Mr Zubair Azam, Curtin University Dubai

Paper ID	Paper Title	Names of Authors (*Presenting Author/s)
20252106	Automatic Classification of Galaxy Morphology Using Convolutional Neural Networks (CNNs)	*Ankur Das, Ishu Sharma
20252180	Efficient Real-Time Pigmentation Monitoring in Dermatology Patients: A Comparative Study of Adaptive Techniques and Histogram-Based Algorithms	*J Thejeswar Reddy
20252192	Prediction of Chronic Disease Using Support Vector Machine (SVM) and Decision Tree (DT) Algorithm with Improved Accuracy	*Harini S, Selvakumarawamy K
20252223	Innovative AI Solutions in Mobile Dermatology: Examining Best Practices for Scalp and Hair Analysis Through Deep Learning	Faizal Hajamohideen, *Rayyan Abdullah Said Alhandasi, Amaal Mohammed, Mubassareen Noorulhasan, Mahzabee Noorul Hasan Shams Al Dhuha

20252371	ML-Based Gesture Recognition for Special Needs People	*Ahmed Salim Alnaqbi, *Mohamed Ahmed Alzeyoudi, *Mohammed Abdulrhman, Benson Raj, Khalid Matouq
20252266	Methods of Rehabilitation in Children Diagnosed with Autism and Determination of Potential Rehabilitation in Autism Spectrum Disorder: A Case Study	* Mohammed Fareed Faizal, Faizal Hajamohideen
20252166	Comparing the therapeutic effectiveness of Centella Asiatica extract against donepezil on MMP9 protein inhibition in dementia disorders utilizing molecular docking analysis	*J.Kamalieswaran, Ieshita Pan
20252400	Contemporary Role of Workplace Bullying Towards Employee Silence and Task Performance: A Mediation Mechanism of Psychological Distress	*Ghulam Abbas Bhatti, Muhammad Nawaz, Rabia Aftab, Fariyah Banu Jamaluddin Saiyad, Raazia Anjum

Session 20: Cybersecurity and Data Privacy Solutions for a Sustainable Digital Future

Date: 23rd February 2025

Time: 11:30 AM-1:15 PM

Room No: Classroom 6

Session Chair: Dr G Nalinipriya, Saveetha Engineering College, India

Staff in Charge: Dr Benita Veronica, Curtin University Dubai

Paper ID	Paper Title	Names of Authors (*Presenting Author/s)
20252199	Phishproof: Enhance Web Security using Machine Learning	Sujatha Elumalai, Anitha Julian *M.Arjun, *S.Abinav Shankar, *V.Vishva
2025255	Innovative and Sustainable Framework for Enhancing Privacy and Security in Peer-to-Peer Social Applications	*Dharshan Kumar P, Sanjana B, Robin Britto V
20252131	Simulating the Kill Chain: A Lab-Based Exploration of Active Directory Attacks from Initial Access to Domain Compromise	Sandhya M, *Gyandeep, Leninisha Shanmugam
2025242	Data security and integrity using hashing function on cryptography	* Vishal D, Rajeswari C
20252357	Exploring Blockchain-Powered Data Security in Salesforce CRM: Applications in Supply Chain Transparency	* Shalini Polamarasetti, Naga Tirumala Rao Chillapalli, Rachit Gupta and Venkata Sai Manoj Pasupuleti

20252134	Revisiting security: An Experimental Attack Analysis of bio-hashing through the random projection matrix	*Aarthi. S, Geetha K
20252303	Innovation in Communication Protocols: Impact and Effectiveness in Professional Settings	*G.Gandhi Mathi, R. Abilasha
2025212	Managing Generational Diversity in The Workplace: Challenges And Management Strategies	*Fayaz Ahamed, Syed Akram Pasha, Vijay Padaguri, Jayakumar Aswathaman
20252100	Designing Of Interactive Web Application For Hostel Management System	Dhamodharan Srinivasan, *Mohana Subi V, Pramika T, Abishek Rpd, Yaswin Gokul S
20252253	AI-Driven Legal Research: Innovations, Challenges, and Future Directions	* Vaishali Gurav, Sanjay Bang, Poonam Nathani

Session 21: Cloud Computing and Software Development: Generative Models, and Intelligent Automation

Date: 23rd February 2025

Time: 1:15 PM-3:30 PM

Room No: Classroom 6

Session Chair: Dr Yasmeeen Anjeer Alshehhi, University of Technology and Applied Sciences, Oman

Staff in Charge: Ms Bhavika Khetani, Curtin University Dubai

Paper ID	Paper Title	Names of Authors (*Presenting Author/s)
20252320	AI and Data Science in Cloud SLM: Building Scalable, Self-Optimizing Service Lifecycle Systems	* Rahul Vadisetty, Anand Polamarasetti
20252321	Generative AI for Enhancing Image and Video Data Analytics in Autonomous Systems	*Rahul Vadisetty, Anand Polamarasetti, Samyukta Rongala, Anil Kumar Jonnalagadda and Praveen Kumar Myakala
20252322	AI-Powered Cloud Security for IoT: Using Generative AI for Secure IoT Device Authentication and Communication	* Rahul Vadisetty, Anand Polamarasetti
20252360	Generative AI and Privacy-Preserving Big Data Analytic in Cloud Environments with AI Agents	*Rahul Vadisetty
20252335	Developing an Automated Script for Detecting Design Pattern in Software Project Using Python	Kishan Kesari Gupta, Mahaboobsubani Shaik, Parag Ravikant Kaveri, *Prashant Awasthi, Sachin A. Naik and Rajesh Kumar Dhanraj

20252333	Leveraging Selenium for Efficient Web Scraping in Criminal Investigation Platforms	*Dhamodharan Srinivasan, Aadhini G K, Baavana Bandrupalli, Pavithra S, Sanjaykumar N
20252189	Advancing Cryptographic Security: A Thorough Evaluation of Enhanced Hill Cipher Algorithm Compared to Transposition Cipher	*Koppolu Phanindra
20252358	Optimizing Business Processes with Hyper-automation: A Case Study on Salesforce Flow in Enterprise Operations	*Shalini Polamarasetti, Harshini Gadam
20252205	Cloud migration DBA Strategies for mission-critical Business Applications	*Balakrishna Boddu
20252421	Securing and Managing Cloud Databases for Business - Critical Applications	*Sethu Sesha Synam Neeli, Balakrishna Boddu
20252260	Scalable Web Scraping Frameworks: Scrape Data Efficiently from Social Media	*Nilofar Shikalgar, R. Gunavathi
20252274	Advancing image captioning: Multilingual capabilities and Hindi-specific applications using transformer-based architectures	*Bijesh Thomas, Naveen Krishna, Amrutha Paalathara, Lija Jacob
2025279	A Detailed Survey On Heavy Hitter Detection In Cloud Data Centre Network	*U. Sundhar, Naresh R, Deepa N
20252276	Integrating Machine Learning for Software Defect Analysis and Performance Optimization in the SDLC: A Pathway to Sustainable Quality Assurance	*Rumesha Seneviratne, Tasnim Akther, Swathi Ganesan, Lakmali Karunarathne, Nalinda Somasiri, Ganapathy Kumar

Lunch (01:15 PM to 02:00 PM)

Session 22: AI and Emerging Technologies for Enhanced Learning Experiences

Date: 23rd February 2025

Time: 2:00 PM-3:45 PM

Room No: Classroom 1

Session Chair: Dr S Vijayalakshmi, CHRIST (Deemed to be University), Pune, India

Staff in Charge: Dr Nidhi Sehgal, Curtin University Dubai

Paper ID	Paper Title	Names of Authors (*Presenting Author/s)
20252300	Examining the significance of anticipating and enhancing student academic achievements using RF and SVM	*C.G.MANIKANTA
20252325	Effect of Virtual Reality on Numerical Memory: An Experimental Inquiry	*Reema Khalfan Abdulla Mohammed Alsenaidi, *Maryam Salah Ali Alawi Al Barazanji, Afreen Faiza, Nida Khan, Saher Alsabbah
20252331	Enhanced Predictive System for Student Expenses Using Ridge Regression and Comprehensive Data Analysis	* Deepa Natesan, Viignesh S, Nivetha G
20252366	User-Centered Design in Interactive Web Tool for Higher Education Platforms	* Gopika K, Dr.Sujatha E., Silambarasi C, *Praveena N, Rekha K.S.
20252385	Adopting AI Tools in Business Education: Assessing Impact of TPACK and Teaching Experience	Saidalavi K, Rasheed K, *Afeefa Cholasseri
2025247	Indoor environment quality of classroom: An experimental study in warm and humid climate	Nesla Nafeesath, * Shriharsh Ashok Dixit
20252221	AI Based Digital Academic Assistance For Supporting University Students	*Faizal Hajamohideen
20252298	Designing Custom VR Headsets and Interactive Menus: A Student-Centred Approach for Orientation Programs at Curtin University Dubai	Sabiha Nuzhat, *Shahra Jafar
2025296	The Relationship between Knowledge Management and Internal Marketing: Transforming Tacit Knowledge into Explicit Knowledge within UAE Healthcare Settings	*Malini Nair, J. Anitha Menon, Taonaziso Chowa

Session 23: Advances in Mental Health and Well-being

Date: 23rd February 2025

Time: 2:00 PM-3:45 PM

Room No: Classroom 2

Session Chair: Dr Afreen Faiza, Institute of Applied Technology, United Arab Emirates

Staff in Charge: Mr Zubair Azam, Curtin University Dubai

Paper ID	Paper Title	Names of Authors (*Presenting Author/s)
20252142	Super stressed: The prevalence of anxiety among Middle Eastern university students	Khym Isaac De Barros, *Elizabeth Sara Roby, Yara El Rifai, Sara Hachem, Marya Badran, Neimat Elkarib, Dana Ammary, Maryam Al Falasi, Abeer Abbas, Mareena Deeb, Zeynab Al Hasouni, Zahra Jaber, Sarah Alsheheda and Jana Kayyal
20252152	Effective treatments: The use of progressive muscle relaxation in reducing anxiety in the Middle East	Khym Isaac De Barros,*Sara Abukmeil, Elizabeth Roby, Abeer Abbas, Mareena Deeb, Marya Badran, Neimat Elkarib, Sara Hachem, Maryam Alfalasi, Yara Elrifai, Dana Ammary, Fatma Almalik, Aya Aqtash, Nouran Azzam, Eyman Hamad, Madiha Ahmed
2025231	Therapy for therapists: Mental health challenges and help-seeking behaviors among psychologists in India	*Aparajita Vaid, Moitrayee Das, Sucharita Belavadi
20252345	TikTok screen time and engagement: Impacts on mental well-being	* Saima Khan, Farhana Ambreen, Razia Anjum
20252277	Emotion-adaptive music therapy for personalized mental health support through sentiment analysis	*Amartya Chatterjee, Anant Narain, Ramya G
20252186	A comparative analysis of SVM and random forest for enhanced mental stress detection in university students	Suvalakshmi S, Radhika Baskar, G Shreevinisha, *Kandanuru Sushmanjani
20252170	Impact of peer victimization on adolescents' emotional well-being: Insights and applications from the Young Lives Study	*Anushka Srivastava, Rahul Kumar Singh, Mohammed Aamir

20252143	Comparative assessment among probiotic formulation and SCFA-producing Lactoplantibacillus pentosus C10 in MRS medium enriched with 1% carbon sources to maintain gut homeostasis	*Niharika Madhavan, Ieshita Pan
20252144	Holistic approach to avert risks by preventing diabetes using random forest over decision tree for a better medical health to find the overall accuracy	*Dhanyaa J, Almas Begum, Deepak A

Session 24: AI and IoT in Industry and Automation

Date: 23rd February 2025

Time: 2:00 PM-3:45 PM

Room No: Classroom 3

Session Chair: Dr R J Golden Renjith Nimal Jai Shriram Engineering College, India

Staff in Charge: Prof Pon Selvan, Curtin University Dubai

Paper ID	Paper Title	Names of Authors (*Presenting Author/s)
2025270	IoT-enabled smart glove for sign language translation: Enhancing accessibility and device interaction	Kalimuthu Kumar S, *Nihil M, Pandiya Rajan G, Santiago Arokiam T
20252162	An innovative approach for AI-based intrusion detection system for IoT environments using Naïve Bayes and support vector machine algorithms	*Ramakrishnan Raman, Rahul Ranjeev Kumar and Benson Raj
20252243	AI-driven fire detection system for UAVs: Integrating CNNs with thermal imaging	*Krishna Vamshi Ganduri, Bhargav Prajwal Pathri, Kesav Reddy Paderla, Tanishq Reddy Gotiga, Venkata Prudhvi Vignesh C, Niharika Susarla
20252174	IoT technologies in power and grid systems	*M.S.Nidhya
20252323	Soil analysis and crop guidance system using IoT sensors	*Harini AVK, Pradeep Sudhakaran, Yash Deepak Parab
20252324	A framework to implement comprehensive resource tracking and crop wellness	*Shrey Srivastava, Pradeep Sudhakaran, Arya Sudheer
20252241	AI-Powered Sustainable Cloud Computing: Using ANN and BiGRU for Enhanced Virtual Machine Management	* Esraa Alqasmy
20252187	Design and Performance Analysis of a Novel Bipolar Linear Array with SRR Antenna for High-Gain ISM Applications	Suvarna S, Mary Joy Kinol Joy Kinol, G Shreevinisha, *Virti Jain
20252433	Decarbonization of Exhaust by CO2 capture using KOH	*Wajahat Khan Mohammed, Sufiyan Syed, Sameeha Adil, Murchana Changmai

Session 25: Revolutionizing Diagnostics: Computational Intelligence Across Medical Specialties

Date: 23rd February 2025

Time: 2:00 PM-3:45 PM

Room No: Classroom 4

Session Chair: Dr Razia Anjum, Bath Spa University, United Arab Emirates

Staff in Charge: Mr Mahesh Nagaraja, Curtin University Dubai

Paper ID	Paper Title	Names of Authors (*Presenting Author/s)
2025216	Innovations and Applications of Generative AI in the Healthcare Sector	*Janmaya Mishra
20252121	Globalizing Continuous Glucose Monitoring Systems: A Paradigm Shift from Traditional Self-Monitoring Blood Glucose Devices	*Vedanth Aggarwal
20252133	Diagnosis of 12-LEAD E.C.G images using residual neural networks	Sandhya M, *Soumyadip Mukherjee, Leninisha Shanmugam
20252136	Efficient Diabetes Detection and Feature Selection using CatBoost Algorithm	*Ranya Samour, Balamurugan Balusamy, Sai Varun C
20252146	Economic impact on advanced healthcare: A comparative analysis of Brain Tumor detection using VGG-19 and CNN	*Sunil Shuraj N, Sivagami S
20252163	A Neural Network Model for Prediction of Heart Disease in Chronic Diabetic Patients	*Sumaiya Thaseen, Poorva Babu, Sai Phanindra Kothuri
2025261	Advancing Precision Medicine: Machine Learning Approaches to Classify Epithelial Ovarian Cancer Subtypes Using RNA-Seq Data	*Asha Abraham, Kayalvizhi R
20252278	Diabetic Retinopathy Grading using Digital Retinal Images	*S Siddharth, Samridhi Singh, Ramya G
20252296	Enhancing Healthcare Efficiency with a Multi-Persona Platform: Swaasth	Shiv Tiwari, *Mr. Anirban Sengupta, Sarthak Shroff, Varad Kattan, Dr. Gayathri V.M
20252147	Innovative Machine Learning Applications for Tobacco Control: A Comparative Study of SVM and KNN	*K P Nitin Kumar, Vimal V R
20252425	Efficient And Invariant Convolutional Neural Networks For Dense Prediction	Sree Kala T, *Benita Veronica
20252428	Classifying Parkinson's Disease Using Deep Learning Models and MRI Data	* Benita Veronica, Febin Antony, Shaziya Islam

Session 26: Innovative Pedagogies for Inclusive and Sustainable Education

Date: 23rd February 2025

Time: 2:00 PM-3:45 PM

Room: Sheikh Mohammed bin Rashid Hall

Session Chair: Dr P Sathya, Holy Cross College (Autonomous), India

Staff in Charge: Ms Shahra Jafar, Curtin University Dubai

Paper ID	Paper Title	Names of Authors (*Presenting Author/s)
20252304	Cartoons for Enhancing Speaking Skills	*Susmitha Sharu R, R. Abilasha
20252426	Bridging Cultures Through Language: Manga as an Inclusive Medium For Diverse Learners	*Adharsh Elsin. J, P. Sathya
20252256	Empowering learning: Adopting 5-Gogy framework for LCA courses in STEAM higher education	*R. Arokia Paul Rajan, Gobi Ramasamy, Deepthi Das, Senthilnathan T
20252305	Innovative Strategies for Teaching English to Learners with Learning Disabilities	*S. Sajna Beevi, Abilasha R
20252407	Empowering Learners: The Role of Psychological Resilience in Quality Education for Sustainable Survivability	*Mr. Jerome S, P. Sathya
20252427	Shankar's 2.0 as edutainment: An Eco ELT material for Sustainability	* S.T. Sreenidhi, P. Sathya
2025211	Management education as a catalyst for social development: empowering tribal graduates through entrepreneurship	*BAANUPRIYA. M, Dr.Senthilvelmurugan J, Balamurugan S
2025221	Finance in the tech age: Evaluating the influence of fintech adoption in Oman's digital transformation	* Mohamed Rafiq, *P. Fayaz Ahamed
2025272	The Impact of Growth Mindset on Psychological Well-Being Among Primary School Students: The Serial Mediation Role of Grit and Academic Self-Efficacy	*Meng Yicen, Yasmin Othman Mydin
2025252	Fostering teacher innovation and creative teaching strategies for enhancing learning outcomes in higher secondary education	*BABU SOUNDARAJAN, NAGENDRA BABU G
20252115	Enhancing the Prediction of Medical Student Mental Health with a Sustainable Solution using Relational Formulated Rule-based Algorithm	*J Vishnu Kannan, Deepa N, Devi T
20252330	Intelligent Monitoring and Predictive Analytics for Dairy Farming: IoT-Driven Mastitis Detection and Milk Production Enhancement	Deepak Raj V R, Akshaya B, Vishalini S, *Deepa Natesan

20252404	Facial Emotion Detection using High Order Local Binary Pattern	*Durgadevi P, Roshan Suvedi, Sanjana M M, Rakesh G, Shivakumar M J
20252405	IoT-Based Driver Alertness System to Prevent Accidents Caused by Drowsiness	*Durgadevi P, Sahil Talekar, Sahana Prabhu, Tilak Chowdary, Samarth Vagrekar
20252387	Sustainable Product Design and Product Life Cycle Management in Emerging Countries– A review	*Sherin Thomas, Roshni Paul

Session 27: Innovations in Healthcare: Diagnostics, Well-being, and Sustainability

Date: 23rd February 2025

Time: 3:45 PM-5:30 PM

Room: Classroom 6

Session Chair: Dr Raajeswari Paramasivam, Avinashilingam Institute for Home Science and Higher Education for Women, India

Staff in Charge: Dr Benita Veronica, Curtin University Dubai

Paper ID	Paper Title	Names of Authors (*Presenting Author/s)
202529	Integrating Green Human Resource Management practices for the profound impact on the implementation and advancement of Artificial Intelligence (AI) in hospitals: A comprehensive review	*SHANMUGA SUNDARI.M, Senthil Velmurugan J, Surya Kumar M
20252113	Natural Language Processing for Sustainable Early Detection of Parkinson's Disease in Social Media Users Based on Linguistic Markers	*V.Jayasudha, Deepa N, Devi T
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Coffee/Tea (03:45 PM to 04:00 PM)