



**NAMIBIA UNIVERSITY  
OF SCIENCE AND TECHNOLOGY**

**UNESCO Chair on Secure  
High-performance Computing for  
Higher Education and Research**

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## **DRAFT PROGRAMME**

### **2025 International Conference**

#### **on**

### **Emerging Trends in Networks and Computer Communications (ETNCC)**

Date: 5-7 August 2025  
Venue: Zoom [Online] and HTTPS NUST [In person]  
Time zone: Central Africa Time [CAT] (UTC/GMT +02:00)

#### **Programme**

#### **Opening of International Conference on 2025 Emerging Trends in Networks and Computer Communications (ETNCC)**

#### **Join Zoom Meeting**

<https://us02web.zoom.us/j/85677053404?pwd=L2h9cV8UsoEqiGGUfbYQwVFQSP8qEf.1>

Meeting ID: 856 7705 3404

Passcode: @ETNCC5

**Date:** Tuesday, 5 August 2025,  
**Time:** 09:00 - 11:00 [CAT]  
**Venue:** Zoom [Online] and HTTPS NUST [In person]

#### **Ms Rennie Munyayi**

Director of Ceremonies

Manager: Research and Post-Graduate Development

Directorate: Research, Innovation and Partnerships

Namibia University of Science and Technology

Time [CAT]	Activity	Presenter/Speaker
09:00	National and AU Anthems	
09:05	Welcoming Remarks	<b>Prof Eroid Naomab</b> Vice-Chancellor: NUST
09:15	Overview of the Conference	<b>Prof Dharm Singh Jat</b> TPC Chair UNESCO Chairholder Chairman: ACM Windhoek Chapter
09:25	Remarks	<b>Mr Gernot Piepmeyer</b>

		Secretary-General of the Namibia National Commission for UNESCO
09:35	Remarks	<b>Prof Anicia Peters</b> Chief Executive Officer (CEO) National Commission on Research, Science and Technology (NCRST), Namibia
09:45	Remarks	<b>Dr Licky Erastus</b> Managing Director Mobile Telecommunications Limited, Namibia
09:55	Remarks	<b>Dr Udochukwu Akuru</b> Chair: IEEE South Africa Section
10:05	Remarks	<b>Prof Andrew Niikondo</b> Deputy Vice-Chancellor: Teaching, Learning and Technology, NUST
10:15	Remarks	<b>Prof Cristina Stefan</b> Pro-Vice Chancellor for Research, Innovation & Development, University of Namibia
10:25	Remarks	<b>Dr Happy Sithole</b> Executive Manager National Integrated Cyber-Infrastructure System (NICIS), CSIR, South Africa
10:40	Official Opening Remarks	<b>Hon. Sanet L. Steenkamp</b> Honourable Minister: Ministry of Education, Arts and Culture
10:55	Vote of Thanks	<b>Prof Fungai Bhunu Shava</b> Acting Executive Dean Faculty of Computing and Informatics Namibia University of Science and Technology
11:00	AU and National Anthems	

<b>11:05 - 11:20</b>	<b>TEA BREAK/ Entertainment</b>
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Time (CAT)	Keynote Speaker's Session-A
11:20 - 13.25	Chair 1: Dr Bosco Paul Alapatt, CHRIST Deemed to be University, Delhi, India Chair 2: Prof Dipti Ranjan Sahu, Namibia University of Science and Technology Moderator: Mr Abubakar Hamisu Kamagata, NUST

Time (CAT)	Activity/Title	Presenter/Speaker
11:20	AI Applications in Energy Sustainability	<b>Prof Narayana Prasad Padhy</b> Director: MNIT Jaipur, India
11:40	Metaverse in the 6G Era: Recent Advancements and Challenges to Overcome	<b>Prof Sayan Kumar Ray</b> Head of School of Computer Science: Taylor's University, Malaysia
12:00	Smart Contract Vulnerabilities and Deep Learning	<b>Prof Meenakshi Tripathi</b> Associate Professor: Malaviya National Institute of Technology Jaipur
12:20	Machine Learning Made Easy: A Case Study on Computer Vision in AWS	<b>Prof Durgesh Kumar Mishra</b> Professor and Director: Symbiosis University of Applied Sciences, Indore, India, Director of Computer Science and Information Technology
12:40	Cognitive Computing and Multimodal AI for Enhancing Healthcare and Quality of Life	<b>Dr Mufti Mahmud</b> Professor: King Fahd University of Petroleum and Minerals (KFUPM), Saudi Arabia, Professor

13:00 - 14:00	<b>LUNCH BREAK</b>
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Time (CAT)	Technical Session – D1-T1-A
14:00 - 15.30	Chair 1: Dr. Nilam Choudhary,SSKIT, Management & Gramothan, Indi Chair 2: Prof Azeta Ambrose, Namibia University of Science and Technology Moderator: Mr Abubakar Hamisu Kamagata, NUST

Paper ID	Title of Paper	Author(s)
013	An Analytical Study on Security and Privacy of Personal Data with Special Reference to Artificial Intelligence and Cybersecurity	Raphael Olakunle Olaniyi, Ruchi Doshi and Kamal Hiran
039	IoT-Enabled Digital Twin for Real-Time Oil Well Monitoring Using MQTT and VR	Jagadeeswari M, Saranya S, Joshika S, Jananisri T and Jeeva Meena U
041	APT Signal Denoising Solution for SDR Receivers	Mate Marton Mezei, Zsuzsanna Ilona Suta and Zsolt Alfred Polgar

<b>081</b>	Feature Engineering for IoT Security: Deriving Machine Learning Features from RPL Performance Metrics	Manju Sharma
<b>082</b>	Design of an Improved Model for Streaming Data Analysis Using Adaptive Sparse Networks and Federated Parameter Sharing Process	Rushikesh M. Shete and Virendra K. Sharma

Time [CAT]	Technical Session – D1-T1-B
<b>14:00 - 15.30</b>	Chair 1: Prof Chirag S Thaker, L. D. College of Engineering, Ahmedabad, India Chair 2: Prof Samuel Akinsola, Namibia University of Science and Technology Moderator: Mr Joao Baptista Bastos, NUST

Paper ID	Title of Paper	Author[s]
<b>228</b>	ISTS: IoT Enabled Smart Tracking System	Purushothaman P J, Dayanita K, Prema K, Shabana Parveen M, Parameswaran Ramesh and Bhuvaneshwari P T V
<b>229</b>	I-ELWS: IoT Driven Early Landslide Warning System	Diksha Mary Jose J, Poonguzhali S, Varshigashree M, Anushiya V, Parameswaran Ramesh and Bhuvaneshwari P T V
<b>232</b>	Generative AI for Augmenting Medical Imaging Datasets in DL-Based Diagnostics	Laxmi Choudhary, Bhanupriya Sharma, Satya Narayan Tazi, Vineet Sharma and Vinay Garg
<b>454</b>	AI-Driven Cloud Infrastructure Provisioning: Leveraging Machine Learning, Observability, and IaC for Autonomous Cloud Operations	Anuj Mehla; Neeraj Dahiya; Kushal Singh
<b>093</b>	Detecting Phishing Emails with Artificial Intelligence: A Hybrid Machine Learning Approach	Rohit Kumar, Karanam Srujana, Polisetti Sampath, Jagdish Chandra Patni, Poorva Agrawal and Soubhagya Ranjan Mallick

Time [CAT]	Technical Session – D1-T1-C
<b>14:00 - 15.30</b>	Chair 1: Dr Rituraj Soni, Govt. Engineering College, Bikaner Chair 2: Prof Stephen Fashoto, Namibia University of Science and Technology Moderator: Mr Edward Amos Jacob Chisala, NUST

Paper ID	Title of Paper	Author[s]
<b>234</b>	Combining Features of Support Vector Machine with Convolutional Neural Network for Image Classification	Paras Singh, Venkataramana A., Srividya K. and Harshit Raj

237	Colon Cancer Detection Using Deep Learning	Mohammed Abduljalill Ahmed, Nida Katı and Ferhat Uçar
338	FertiRecommender: A Smart Fertilizer-Based Crop Production System	Pedina Sasi Kiran, Gembali Abhinaya, B. Sahithi, Manish Mishal Behera, Neelamadhab Padhy, Archana Patnaik and Rasmita Panigrahi
339	PREDICTION AND MONITORING OF HUMAN BEING MENTAL HEALTH USING MACHINE LEARNING CLASSIFIERS	Rasmita Gantayet , Sibo Prasad Patro and Neelamadhab Padhy
341	Optimizing QoS for Video Streaming in H-MANETs: An Investigation of SDN-Based Queue Management Strategies	Prachi Goyal, Vinay Rishiwal and Ashish Negi
514	Optimal Financial Fraud Detection and Alerting Mechanism in Cloud Computing Using Deep Belief Network	Suchithpal Reddy Lankala, Mahatma Reddy Marri, Abhishek Jain, Geol Gladson Battu, Upasna Lakina and Sanjay Singla

Time [CAT]	Technical Session – D1-T1-D
14:00 - 15.30	Chair 1: Dr Bhavna Sharma, JECRC University Chair 2: Prof Jude Osakwe, Namibia University of Science and Technology Moderator: Mr Werkinah Eshete, NUST

Paper ID	Title of Paper	Author[s]
553	Wearable Sweat Sensors for Personalised Healthcare	Shashi Kala Nagarkoti, Richa Yadav and Pooja Bhati
555	Secure Cloud-Based Financial Fraud Detection Using Hybrid Deep Learning and Blockchain Techniques	Arjun Chaudhary, Anuj Kumar Shah, Sundar Tiwari, Pavan Nutalapati, Varun Malik and Sanjay Singla
556	Hybrid LSTM-CNN Models for Real-Time Financial Forecasting on Cloud Infrastructure	Anjani kumar Polinati, Shashank Majety, Chandra Sekhar Kubam, Vivek Ghatala, Varun Malik and Sanjay Singla
559	Deep Learning Based Anomaly Detection for Real-Time Financial Transactions in Cloud Environments	Kumaran Ramaswamy, Shweta Gupta, Pavan Nutalapati, Sudarshan Prasad Nagavalli, Sanjay Singla and Varun Malik
560	Cloud-Enabled Convolutional Neural Networks For Fraudulent Credit Card Transaction Identification	Anjani Kumar Polinati, Mahatma Reddy Marri, Jagadeesh Duggirala, Vishal Sresth, Varun Malik and Sanjay Singla

Time (CAT)	Technical Session – D1-T1-E
<b>14:00 - 15:30</b>	Chair 1: Dr Manju Nunia, PES University, Bangalore Chair 2: Prof Mercy Chitauru, Namibia University of Science and Technology Moderator: Mr Akot Benjamin Awanda Makuach, NUST

Paper ID	Title of Paper	Author(s)
<b>197</b>	Reinforcement Learning for an Automated Snake Game	Omar Ayman Mohamed Abdelhady Khamis, Sebastian zelayabustillo, Meerah Karunanithi, Ahmed hassan, Loubna Ali and Syed Arslan Abbas Rizvi
<b>199</b>	Maximum Speed Prediction of Porsche Cars Using Vehicle Specifications and Machine Learning Models	aswin sathyan, Debopriya Das, Rand kouatly, Ahmed Hassan, Meerah Karunanithi and arslan rizvi
<b>200</b>	Data-Driven Mobile Price Range Prediction Using Feature Engineering and Machine Learning Models	Frenny Swanisha Pinto, Meerah Karunanithi, Rand kouatly, Ahmed Hassan, Loubna Ali and Syed Arslan Abbas Rizvi
<b>557</b>	Deep Learning-Driven Stock Market Forecasting Using Cloud-Based Financial Time Series Analytics	Venkatraman Viswanathan , Anuj Kumar Shah, Chandra Sekhar Kubam, Dr. Sravanthi Dontu , Amita Gandhi and Priti Singla

<b>15:30 - 15:45</b>	<b>TEA BREAK</b>
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Time (CAT)	Technical Session – D1-T2-A
<b>15:45 - 17:15</b>	Chair 1: Dr Arpit Jain, NUST Chair 2: Ms Charu Singh, NVIDIA, USA Moderator: Mr Abubakar Hamisu Kamagata, NUST

Paper ID	Title of Paper	Author(s)
<b>094</b>	Lightweight and Privacy-Preserving Authentication in IoV Systems Using FIDO2: An Overview	Rohit Kumar , Chittaranjan Mandal, Jagdish Chandra Patni, Priyanka Basak, Poorva Agrawal and Soubhagya Ranjan Mallick
<b>124</b>	HAD-5G: A Hybrid Deep Learning Approach for Multiclass Attacks Classification	Nawal Rifka Annisa , Ntivuguruzwa Jean De La Croix, Tohari Ahmad, Jennifer Batamuliza , Abdulati K S Jahbel and Radityo Anggoro
<b>188</b>	Design of an Improved Model for IoT Forensic Analysis Using Federated Swarm Learning and Evolutionary Graph Compressions	Rajesh Babu Gangavarapu and Dr. Virendra K.Sharma

189	A Comprehensive Literature Review of Privacy Preserving Techniques and Challenges in Decentralized Federated Learning	AlsharifHasan Aburbeian, Manuel Fernandez-Veiga, Ana Fernandez-Vilas, Amani Owda and Majdi Owda
193	A Practical Analysis of Deep Learning Models for Real-World Face Recognition	rolan badrislamov, Meerah Karunanithi, Rand Koutaly, Ahmed hassan, Arslan Rizvi and Ioubna Ali
196	Song Genre Classification From Audio Data Using ML	arash rahmani, paulo cesar quadros de freitas , Rand kouatly, Ahmed Hassan, Loubna Ali and Meerah Karunanithi
201	Exhaustive Search and Genetic Algorithm: a Comparative Study of Their Performance on the N-Queens Problem	hande goezuebueyuek, Meerah Karunanithi, Rand kouatly, arslan Rizvi, debopriya Das and Ahmed hassan

Time (CAT)	Technical Session – D1-T2-B
15:45 - 17:15	Chair 1: Dr Vikas Kumar Jain, NMIMS, Indore Chair 2: Dr Gereon Kapuire, Namibia University of Science and Technology Moderator: Mr Joao Baptista Bastos

Paper ID	Title of Paper	Author[s]
639	Visualization and Despeckling of Ultrasonic Images in Medical Image Processing	Rimpy Jain *, Manju Mandot , Pooja Mehta
17	Optimizing Computational Efficiency in Large-Scale Climate Models through Adaptive Resolution Techniques	Nigam Bhatt
053	TraceAI: Intelligent Distributed Tracing Using Large Language Models	Mihir Satra, Navrati Saxena and Abhishek Roy
054	AI-Enabled Anticipatory Handover Predictions in 5G Networks	Ojas Ankush Naik, Pooja Shyamsundar and Navrati Saxena
055	Machine Learning based Network Traffic Classification with Cosine-Similarity based Out-Of-Distribution Detection	Prabhat Edupuganti, Pooja Shyamsundar and Navrati Saxena
565	PSO-tuned Neural Networks for Intrusion Detection in Computer Networks	Mahima Chowdary Mannava, Rikhila Reddy Annem and Navrati Saxena
096	Vision-Based Real-Time Drowsiness Monitoring System Using OpenCV	A Ezil Sam Leni, Jagdish Chandra Patni, Kodidhi Hemanth Reddy, Nagavardhan Pujala, Kateneni Abhishek, Vadde Sanjay, Harshala Shingne and Poorva Agrawal

Time (CAT)	Technical Session – D1-T2-C
15:45 - 17:15	Chair 1: Dr Nilam Choudhary, SKIT, Jaipur, Indis Chair 2: Dr Cleopas Kwenda, Namibia University of Science and Technology Moderator: Mr Edward Amos Jacob Chisala, NUST

Paper ID	Title of Paper	Author[s]
67	Algorithmic Foundations of Scalable High-Performance Computing	Gabriel Wittum
641	Intelligent Fire Detection and Suppression Using Autonomous Drone Swarms	Mashaal Sayeed *, Meenakshi Tripathi , Ruturaj Rakshe
590	Developing Domain-Specific Chatbots: Leveraging the Bitext Gen AI Dataset for Customer Service Applications	Anil Kumar Devarapalem
592	A Comprehensive Machine Learning Method for Identifying Frauds in Digital Transactions in Real-Time Banking Settings: Difficulties and Consequences	Vignyanand Penumatcha
223	Hybrid Fingerprint Classification using Deep Learning and Sobel Feature Fusion	Md Farhan Zaman, Oluwasola Mary Adedayo and Qian Liu

Time (CAT)	Technical Session – D1-T2-D
15:45 - 17:15	Chair 1: Dr. Bhavna Sharma, JECRC University, Jaipur Chair 2: Dr Pankaj Jain, JECRC University, Jaipur, India Moderator: Mr Werkinah Eshete , NUST

Paper ID	Title of Paper	Author[s]
88	Multi-Layer Analysis of Wi-Fi Man-in-the-Middle Attacks	Santhi V, Kishoreadhith Vijayakumaar, Bragadeesh V, Anbuselvan M, Aravindhkrishnan P, Sudhanbalaji M
91	A Target-Driven Visual Navigation Framework using SSIM for Scene Similarity	Aryan Jain, Shrirang Joshi, Vatsal Jain, Rohit Mittal, Praveen Shukla, Dr. Kamal Kant Hiran
105	Advance Data Ingestion Framework – Integration, Processing, Transformation, and Loading	Samiksha Gupta, Ajay Kumar, Neha Mishra, Ramesh Chandra Poonia
186	An Efficient Deep Learning Framework for Cyberbullying Detection Using DistilBERT And Sentiment Analysis	Ravinder Kumar, Dimpal Sharma, Ajay Kumar, Naveen Hemrajani, Ramesh Chandra Poonia



202	Benchmarking Swin Transformers for Histopathological Image-Based Breast Cancer Detection	Sasmitha Baskaran, Simran Chhajwani, Dr.Praveen Shukla , Renu Kumawat, Hitesh Tekchandani
212	Efficient Armed Threat Detection on Edge Devices Using YOLOv11n: A Comparative Study with YOLOv8n	Devadyumna Vijay Kumar, Rohit Mittal, Vibhakar Pathak, Manish Tiwari
213	Predictive Analysis of Walmart Data for Sales Forecasting Using Hybrid Machine Learning Model	Sarabu Sahitya, Harismitha C, Reshmi Saravanan, Dr Arul Jothi S
77	Gamified Learning for Electric Circuit Design: A Puzzle-Based Approach to Robotics Education	Nigam Bhatt

Time (CAT)	Technical Session – D1-T2-E
15:45 - 17:15	Chair 1: Dr Mayank Patel, Geetanjali Institute of Technical Studies, Udaipur, India Chair 2: Dr Mehul Mahrishi, Professor, SKIT, Jaipur, India Moderator: Mr Akot Benjamin Awanda Makuach, NUST

Paper ID	Title of Paper	Author[s]
214	Comparative Analysis of Epileptic Seizure Detection Using Deep Learning Models	Sarabu Sahitya, Harismitha C, Dr Arul Jothi S
595	NoRef-CLIP: Image Quality Assessment via Prompted Vision-Language Models	Nandita Rawat, Geeta Rani
597	Adverse Drug Event Detection using NLP	Kasvi Soni, Geeta Rani
603	Modular LLM Architecture with Pluggable Reasoning Heads: A Scalable Approach to Multi-Modal AI Reasoning	Anurag Pathak *, Dilip Kumar Sharma , Harshada Agrawal , Rathachai Chawuthai , Jirayu Petchchan
604	Interpretable Deep Learning for Fuel Usage Forecasting in Vehicles: A Time-Series Transformer and Alibi-Based Approach	Bhuvanesh Singh , Dr Dilip Kumar Sharma *

## Research Day (Day 2)

### Opening of FCI Research Day and African Research Symposium (ARS)

**Theme:** A Decade of Societal Empowerment with Technological Innovations and Research for National Development

**Date:** Wednesday, 6 August 2025,

**Time:** 08:45 - 10:30 [CAT]

**Venue:** Zoom (Online) and HTTPS NUST (In person)

Join Zoom Meeting

<https://us02web.zoom.us/j/85677053404?pwd=L2h9cV8UsoEqiGGUfbYQwVFQSP8qEf.1>

Meeting ID: 856 7705 3404

Passcode: @ETNCC5

Director of Ceremonies

**Dr Arpit Jain**

Centre Head: INCEIT, Faculty of Computing & Informatics

Time [CAT]	Activity	Presenter/Speaker
08:40	National and AU Anthems	
08:45	Welcoming Remarks	<b>Prof Fungai Bhunu Shava</b> Acting Executives Dean: FCI
08:55	Remarks	<b>Prof Colin Stanley</b> Acting DVC Research, Innovation and Partnerships: NUST
09:05	Research and Innovation Support	<b>Dr Anna Matros-Goreses</b> <b>Executive Director</b> <b>Directorate: Research, Innovation and Partnerships</b>
09:15	Remarks	<b>Dr Lisho Mundia</b> Deputy Executive Director: Ministry of Education, Innovation, Youth, Sports, Arts & Culture Government of the Republic of Namibia
09:25	Keynote Speaker	<b>Dr Tshiamo Motshegwa</b> AOSP Director: National Research Foundation (NRF) Pretoria, South Africa
09:45	Opening Remarks	<b>Hon. Emma Inamutilla Theofelus</b> Minister of Information and Communication Technology, Government of the Republic of Namibia
10:00	Closing Remarks	<b>Prof Suama Hamunyela</b> Associate Dean: School of Informatics, Journalism and Media Technology, NUST
10:05	AU and National Anthems	
10:10 - 10:20	<b>TEA BREAK</b>	

## African Research Symposium (ARS) 2025

Time (CAT)	African Research Symposium: Technical Session – -D2-T1-A
10:20 - 11.45	Chair 1: Dr Andreas Elombo, Namibia Energy Institute, NUST Chair 2: Dr Jitendra Kumar Chouhan, GITS, Udaipur, India Moderator: Mr Abubakar Hamisu Kamagata, NUST

Time (CAT)	Activity/Title	Keynote Speaker
10:20:10:40	<b>Digital Health and Neurodegenerative Diseases: New Approaches for the Ageing Brain Clinic and Research</b>	<b>Prof Logroscino Giancarlo</b> , University of Bari , Italy

Paper ID	Title of Paper	Author(s)
532	Artificial Intelligence-based Spectrum Management in Electronic Warfare Environments	Gagandeep Malhotra and Dharm Singh Jat
527	Co-Designing a Web-Based Interface for an AI-IoT Hydroponics System with an Indigenous Community in Namibia	Vilho Nguno, Revaldo Gertze, Rikurora Karamata, Angeline Mukamana, Florence Kamukuju, Sarina Till, Naftali Indongo, Shorty Kandjengo, Kasper Rodil, Rachel Charlotte Smith and Heike Winschiers-Theophilus
537	Synthetic Data-Driven Anomaly Detection for Safety-Critical Green Hydrogen Systems	Victoria N. Ambambi and Attlee M. Gamundani
541	Mirror of Reflections: Creating Relatable AI-generated Motivational Stories from San Youth Experiences and San Elders' Wisdom	Naftali Indongo, Rosetha Kays, Varde Daniel, Johnson Kaulinge, Cassius Guiob-Badmos, Michaela Soabes, Franco Beukes, Rachel Smith and Heike Winschiers-Theophilus
551	Disease Detection in AI-IOT Hydroponics Systems using a combination of CNNs and multimodal-LLMs	John Adriaans *, Jonas Nghidengwa , Sakaria Nghivafe , Ponti Muyenga-Muyenga , Profiliu Nandjebo , Mike Kale
578	Contextual Factors in User Authorisation for Public Cloud Storage	Stanford Musarurwa *, Attlee Gamundani , Fungai Bhunu Shava
594	Systematic Review of Machine Learning Applications in Geophysics: Integrating Seismic, Potential Field, Geological Modelling, and Natural Hazard Domains	Bashiru Ojulari, Muyideen Adewale, Amina Sambo-Magaji, Joseph Oju, Ambrose Azeta, Umaina Muhammad and Steven Tjiraso

610	AI in Teaching and Learning: A Case Study for Higher Education	Simon Muchinenyika *, Ambrose Azeta, Mike Kale, Jacodia Fransman
190	AI-Driven Approaches for Optimising Data Governance in Large Enterprises: A Systematic Literature Review	Jude Osakwe, Mercy Ziezo, Iyaloo Haitula-Waiganjo

Time (CAT)	African Research Symposium: Technical Session – -D2-T1-B
10:40 - 11.45	Chair 1: Dr Kalpna Jain, MPUAT, Udaipur Chair 2: Prof Joshua A Abolarinwa, NUST Moderator: Mr Joao Baptista Bastos, NUST

Paper ID	Title of Paper	Author(s)
106	Design of an IoT-Based Multi-Layer Access Control System	Joshua Abolarinwa, Matthew Gertze
227	Synthetic Climate Data Generation Using Generative Adversarial Networks for Drought Modelling in Southern Africa	Jimmy Katambo, Lars Ribbe and Victor Kongo
608	Characterising Namibian Residential Load Profile Archetypes using Self-Organising Map (SOM)-Based Temporal Segmentation and Seasonal Clustering	Rachel Stephen Mollel , Lina Stankovic , Vladimir Stankovic , Andreas Elombo *, Helvi Ilikea, Jona Hambata
536	AI-IOT System for Pest Control in Crops	Anton Limbo, Sacheus Kapiye and Rafael Puentes
027	A Systematic Review of Bio-Inspired Optimisation Algorithms Post 2020	Simisani Ndaba, Rajalakshmi Selvaraj, Hlomani Hlomani and Alton Mabina
028	Utilizing Data Science to Address Gender Disparities in Health in Africa: A Review	Simisani Ndaba, Alton Mabina and Christophe Mumaragishyika
576	Automated Citation Detection in Congolese Legal Texts: Leveraging LLM-Based NER for Knowledge Graph Construction	Jovita Mateus *, Benard Ngandu , Landry Mbale , Antoine Bagula
581	Evaluating the Use of Biometric Tools for Securing Computer Systems in Congolese Academic Institutions	Jovita Mateus *, Othniel Mukena , Robert Makila , Guy-Alain Zodi
598	Development of a Java-Based Informatics Software for Generating House Setups and Water-holding Breeding Containers for Predictive Computational Models of Disease-transmitting Vectors	Olugbenga OLUWAGBEMI, Abdulwahab Jatto, Folakemi Oluwagbemi and Ambrose Azeta

624	Design of Dual Band Circularly Polarized Antenna for Indian Satellite System	Anshu Gaur, Navneet Agrawal, Dharm Singh Jat and Suriti Gupta
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Time [CAT]	Technical Session – -D2-T1-C
10:40 - 11.45	Chair 1: <b>Dr Reema Thabit, Taylor's University, Malaysia</b> Chair 2: Dr Gabriel Nhinda, Namibia University of Science and Technology Moderator: Mr Edward Amos Jacob Chisala, NUST

Paper ID	Title of Paper	Author[s]
378	Customer Churn Prediction in E-commerce Using AutoML and Explainable AI Frameworks	Shiney Chib, Abhishek Vishwakarma, Kapil Mundada, Keerthi Jain, Kanika Handa
379	Big Data-Driven Music Recommendation System Using Graph-Based Collaborative Filtering and Behavioural Analysis	Utkarsh Verma, Apurba Chakraborty, Kapil Mundada, Pritam Lanjewar, Ankita Bhandwalkar, Tanmay Wankhade
380	Automatic Instrument Recognition in Multi-Instrumental Tracks Using Deep Convolutional Audio Classifiers	Pratima Pandey, Asif Jamal, Navnath B. Pokale, Pawan Wawage, Ankita Makker
382	Voice Cloning and Singing Style Transfer Using Generative Adversarial Networks in Music Production	Amit Das, Om Prakash, Mahesh Kurulekar, Rupinder Kaur Grewal
384	Photo Authenticity Detection Using Machine Learning for Deepfake and AI-Generated Content Verification	Rajesh Raikwar, Adarsh Kumar, Simranjit Kaur, Atul Shrivastava, Suchitra Labhane, Trupti Manohare
385	Super-Resolution Enhancement of Low-Light Photography Using Generative Adversarial Networks	Aarfa Rajput, Navnath B. Pokale, Rahul Shakya, Abhijeet Deshpande, Jasmeet Kaur

Time [CAT]	Technical Session – -D2-T1-D
10:40 - 11.45	Chair 1: <b>Dr Shakeel Ahmed, Taylor's University, Malaysia</b> Chair 2: Dr Sadrag Shihomeka, Namibia University of Science and Technology Moderator: Mr Werkinah Eshete, NUST

Paper ID	Title of Paper	Author[s]
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386	Automatic Image Tagging and Captioning Using Transformer-Based Vision-Language Models	Manjushri Joshi, Syed Fahar Al, Arpit Agrawal, Rajesh Raikwar, Vashisht Singh
388	Stress Detection Using Machine Learning on Biosensor Data: A Real-Time Feedback Model for Mindfulness Programs	Sulakshana Malwade, Shradha Vaishnav, Aparna Sharma, Touseef Ahmed Lone, Shiney Chib, Suhas Bhise
390	Explainable AI for Holistic Wellness Planning: Transparent Personalization of Exercise, Diet, and Mental Health Routines	Yogita Sharma, Richa Sharma, Shraddha Vivek Deshpand, Mandeep Kaur
391	Human Values in the Age of Algorithms: Using Big Data to Assess Shifts in Public Discourse and Morality	Gulam Ali Rahmani, Deepti Ganesh Korwar, Vaishali Rahate, Aparna Sharma, Pratiksha Sarge, Arvind Kumar
392	Predicting Graduate Employability Using Ensemble Learning on Resume Data, Internships, and Soft Skill Scores	Vaishali Rahate, Mohd Asif, Roopa David, Abhijeet Deshpande, Bhairavi Kumbhare, Pradip Kumar Yadva
393	Sleep Quality Analysis Using Deep Learning on Multichannel Physiological Data from Smart Wearables	Sudesh Sangwan, Kushi Kashyap, Suhas Bhise, Harinder Pal Singh

Time (CAT)	Technical Session – -D2-T1-E
10:40 - 11.45	Chair 1: <b>Dr Soobia Saeed, Taylor's University, Malaysia</b> Chair 2: Dr Phillip Santos, Namibia University of Science and Technology Moderator: Mr Akot Benjamin Awanda Makuach, NUST

Paper ID	Title of Paper	Author[s]
409	Predicting Diabetes Onset Using Machine Learning: A Text-Based Analysis of Lifestyle and Behavioral Factors	Alkhalil Ibrahim Alharthi, Sayan Ray
410	Optimising Fruit Freshness Detection using Lightweight Model Pruning Technique	Wan chee tin, R Poornima Mahadevappa
411	Helmet Detection and License Plate Recognition for Motorcycle Riders using YOLO Algorithm	Zhou Longji, Siva Raja
412	Electronic component waste identification and classification system based on deep learning	Zhang Yuze, Toh Leow Bin

413	Fall Behavior Detection in Elderly People using Improved YOLO5v5 Model	Li Shi Jie, Fatima tu Zehra
415	Enhancing Employee Mental Health: Machine Learning Models for Occupational Burnout Prediction Using Job-Related Features	Lau Sook Cheng, Azyyati Adiah Zazali

African Research Symposium: Technical Session – D2-T2-A		
Time (CAT)		
11:45 - 13.00	Chair 1: Prof Ramesh Chandra Poonia, CHRIST (Deemed to be University), India Chair 2: Dr Sebastian Mukumbira, Namibia University of Science and Technology Moderator: Mr Abubakar Hamisu Kamagata, NUST	

Paper ID	Title of Paper	Author[s]
579	Blockchain-based Task Allocation in IoT Networks	Vinay Maurya, Vinay Rishiwal, Arpit Jain, Preeti Yadav, Mano Yadav and Abhishek Gautam
602	Culturally Grounded Text-to-Image Gen-AI: LoRA Fine-tuned Stable Diffusion Models to Generate Cartoon Characters of San Learners	Nyasha Musiyarira, Naftali Indongo and Fidelia Mahukazuva
625	A Comparative Analysis of Backdoor and Label-Flipping Attacks on Credit Card Fraud Detection Using Ensemble Learning Techniques	Stephen Fashoto, Jeremiah Olamijuwon, Elizabeth Oyekanmi, Elliot Mbunge, Israel Elujide, Clopa Kwenda, Gabriel Nhinda and Fungai Shava
573	Multimodal Intelligent Dynamic Network Slicing for V2X: A Review	Werkineh Eshete Yifru and Dharm Jat Singh
574	A Machine Learning-Based Zero Trust Security Framework for Predicting Cyberattacks on Examination Result	Ambrose Azeta, Funmi Onaolapo and Vivian Nwaocha
640	Hybrid Sensor Node Localization Approach in WSN-assisted IoT for Smart Agriculture	Preeti Yadav, Vinay Rishiwal, Sunita Yadav, Mano Yadav, Chirag Singh, Garvin Venjona Tjamburo*

Time (CAT)	African Research Symposium: Technical Session – D2-T2-B	
11:45 - 13.00	Chair 1: Dr Rimpay Jain, Freelancer, India Chair 2: Dr Wanja Njuguna, Namibia University of Science and Technology	

Moderator: Mr Joao Baptista Bastos, NUST

Paper ID	Title of Paper	Author[s]
531	Lung Cancer Detection Based on Histopathology Images by Using Transfer Learning	Sonal Sharma, Vinay Rishiwal, Edward Nepolo, Mano Yadav, Preeti Yadav and Dharm Singh Jat
066	From Capture to Court in Crime Scene Investigations: A Blockchain-Based Tamper-Proof File Sharing System Utilizing IPFS Multihash	Mfundo Andrew Maneli, Omowunmi Elizabeth Isafiade and Oluwasola Mary Adedayo
086	Building a CNN Based Pest Detection System for Off Grid Hydroponic Farming in Rural South Africa	Yusra Adnan, Taryn Wilson and Sarina Till
089	Proactive Congestion Control for IoT Networks Using Markov Model	Godfrey Akpakwu, Topside E Mathonsi, Tshimangadzo M. Tshilongamulenze, Solly P. Maswikaneng and Tonderai Muchenje
127	Hybrid Sampling Approach for Enhanced Botnet Spam Detection Using Two-Stack Machine Learning	Fajra Hanifa Nuridi Radam , Ntivuguruzwa Jean De La Croix, Tohari Ahmad, Royyana Muslim Ijtihadie, Abdulati K S Jahbel and Ndaruhutse Jean Paul
210	Enhancing Wholesale Management Through Machine Learning-Based Customer Behavior Analysis	Samuel-Soma M. Ajibade, Abdulgafar Olorunleke Oyewopo, Muhammed Basheer Jasser, Ghassan Saleh ALDharhani, Wei San Lee, Anthonia Oluwatosin Adediran, Kayode A. Akintoye and Mbiatke Anthony Bassey
224	Designing a mobile prototype for supporting financial management skills and decision making: A co-creation study with Informal Saving Groups in Dodoma, Tanzania.	Madina Hamisi Juma, Nasibu Rajabu Mramba, Jarkko Suhonen, Matti Tedre and Alsen Florian Kapinga
226	Predicting NBA outcomes using machine learning: Can emerging leagues benefit?	Sheethal Tom and Yu-Ying Darren Chen

#### Technical Session – D2-T2-C

##### Time (CAT)

**11:45 - 13:00**

Chair 1: Dr Siva Raja Sindiramutty, Taylor's University, Malaysia  
 Chair 2: Ms Albertina Shilongo, Namibia University of Science and Technology  
 Moderator: Mr Edward Amos Jacob Chisala, NUST



Paper ID	Title of Paper	Author(s)
417	Improving Telecom Churn Prediction through Real-Time Machine Learning Models	Hamed Ahmed Khamis AL Balushi, Navid Ali Khan
418	A Matching Platform for Academic Collaboration of Computer Science Students through Natural Language Processing	Qin weixiong , Noor Hasrina Bakar
422	PCB Panel Defect Detection based on Deep Learning	Xiong junsen , Sarerusaenye Ismail
424	Design and Implementation of Virtual AI Human English Teaching Assistant System	Dai delin , Abudul Hadi Mohamad
428	Research on air pollution forecast method of Shanghai based on machine learning	Yang Wenhan , Steve Teoh Chee Hooi
431	Automated Road Crack Detection System Using Artificial Intelligence	Ding xiao , Goh Wei Wei , Farzeen Ashfaq
433	Diabetic Retinopathy Detection from Fundus Images Using Deep Learning with Convolutional Neural Networks	Hu jiaqi , Husin Jazri

Time (CAT)	Technical Session – D2-T2-D
11:45 - 13.00	Chair 1: <b>Dr Arafat Mohammed Rashad Al-Dhaqm, Taylor's University, Malaysia</b> Chair 2: Mr Admire Kachepa, Namibia University of Science and Technology Moderator: Mr Werkinah Eshete, NUST

Paper ID	Title of Paper	Author(s)
435	Model Training and System Implementation Based on Machine Learning for Privacy Protection	Wang Zirui , Saliyah Kahar
439	Icicle Object Detection Based on an Improved ShuffleNetV2	Li sijia , Syeda Mariam Muzammal
442	Music Generation and Key Standardization Using LSTM Model	Zhang Kun, Siva Raja
444	Using machine learning models to predict estimated time of arrival (ETA) based on DoorDash order data	Zeng fan, Steve Teoh

534	Identification And Positioning of Subsurface Pipelines through Ground Penetrating Radar:Evaluation from a Signal Processing	Priya Shinde; shital katkade; Aziz Binnaser
458	AI Virtual Inspection and Environmental Monitoring Platform	Guo jiawen , Afizan Azaman

Time (CAT)	Technical Session – D2-T2-E
11:45 - 13.00	Chair 1: <b>Dr Shabana Anjum Shaik,Taylor's University, Malaysia</b> Chair 2: Mr Edward Nepolo, Namibia University of Science and Technology Moderator: Mr Akot Benjamin Awanda Makuach, NUST

Paper ID	Title of Paper	Author(s)
459	Breast cancer diagnosis and breast-conserving surgery decision system based on CNN and Random Forest Learning	Cao Hongliang , Abdul Hadi Mohamad
515	A Design of a Histopathology Image Augmentation Pipeline for Colon Cancer Image Processing	Jie Li, Weiwei Goh , Noor Zaman Jhanjhi
542	Credit Card Default Prediction Based on Machine Learning	Yang Yin, Siti Zainab Ibrahim
543	Machine Learning Models for Predicting Student Dropout Rates and Academic Performance	Liu Yiguang , Fatima tu Zehra
546	Implementation of a Microscopic Cell Recognition System Based on Improved YOLOv7	Zhang Long , Steve Teoh Chee Hooi
547	Prediction of Operational Risk in Rural Credit Banks Based on CNN and LSTM Methods	Yang Run , Soobia Saeed
548	Network Public Opinion Sentiment Analysis Based on BERT and Deep Learning	Fan shuo , Husin Jazri

<b>13:00 - 14:00</b>	<b>LUNCH BREAK</b>
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Time (CAT)	African Research Symposium: Technical Session – D2-T3-B
14:20 - 15.30	Chair 1: Prof Navneet Agrawal, MPUAT, Udaipur Chair 2: Ms Helena Hainana, Namibia University of Science and Technology Moderator: Mr Joao Baptista Bastos, NUST

Paper ID	Title of Paper	Author(s)
233	Ultrasonic Glasses and Alert Armband: A Low-Cost Wearable System for Head-Level Obstacle Detection for the Visually Impaired	Kiyara Sha, Etienne Alain Feukeu and Sumbwanyambe Mbuyu
520	Development of a vision-transformer based web platform for bean leaf disease detection	Taurai George Rebanowako, Kevin Moyo, Daniel Tendenedzai, Aspinas Tigere, Dzinaishe Mpini, Tinomuda Mzikamwi and Noreen Sarai
533	A Comprehensive Review of Surveillance Systems: From First-Generation to Modern-Day Innovations	Smart Lubobya and Gabriel Musonda
558	Performance Evaluation of H.323 and SIP Protocols in Internet Telephony	Abraham Mulondiwa, Shiaka Nkholoma, Chileshe Mary Ngosa, Phillip Senga and Evans Kalaba
566	A Conceptual Approach for the Cybersecurity of Student Information in Artificial Intelligence-Enhanced Educational Settings	Rajeev Veedu , Srinath Doss, Kamal Hiran and Ruchi Doshi
572	Move With Me: Designing Wearable Technology to Encourage Physical Activity in Rural South African Children	Mishka Dewlok, Taryn Wilson and Sarina Till
79	Mpilo Mbulelo Tatana, Mohohlo Samuel	Tsoeu, Rito Clifford Maswanganyi

Time (CAT)	Technical Session – D2-T3-C
14:20 - 15:30	Chair 1: Dr Noor Hasrina Bakar,Taylor's University, Malaysia Chair 2: Mr Isaac Nhamu, Namibia University of Science and Technology Moderator: Mr Edward Amos Jacob Chisala, NUST

Paper ID	Title of Paper	Author(s)
549	Coronary heart disease risk prediction based on XGboost machine learning technique	Song Xinyue , Navid Ali Khan
550	Fraud detection in Financial Transactions using Machine Learning models	Omorbekova Alina Omorbekovna , Humaira Ashraf
552	Facial Expression Data Enhancement Algorithm Based on StarGANv2	YANBOWEN YANBOWEN , Navid Ali Khan , N Z Jhanjhi
586	Graph Neural Networks in Text Mining: A Novel Framework for Knowledge Extraction and Representation	Humaira Ashraf , Javairia Malik
617	Comparative Analysis of Proximity-Based Tracing and Close Contact Tracing Strategies:	Saravanan Muthaiyah , Gunasekar Thangarasu , Kalaiarasi Sonai Muthu Anbananthen, Fong

	Efficacy, Efficiency, and Ethical Considerations	Pui Kwan , Thein Oak Kyaw Zaw , Mohammed Irfan Abdul Malick Sahib
618	Prediction of Lung Metastasis from Digital Chest Radiograph Using Texture Analysis and Machine Learning	Tong Kuan Chuah , Saravanan Muthaiyah , Wei Yuan Lim , Vivek Ajit Singh
619	Artificial Intelligence Using Residual Convolutional Neural Network-Based Decision Support Systems in Smart Agriculture	Gunasekar Thangarasu , Carmel Mary Belinda M J , Kayalvizhi Subramanian , Saravanan Muthaiyah , Nattar Kannan , Thein Oak Kyaw Zaw

Time [CAT]	Technical Session – D2-T3-D
<b>14:20 - 15:30</b>	Chair 1: Dr Poornima Mahadevappa, Taylor's University, Malaysia Chair 2: Mr Johnson Billawer, Namibia University of Science and Technology Moderator: Mr Werkinah Eshete, NUST

Paper ID	Title of Paper	Author[s]
620	Enhancing Interoperability of Heterogeneous Blockchains Through Big Data-Driven Communication Frameworks	Gunasekar Thangarasu, Kayalvizhi Subramanian , Nattar Kannan , Carmel Mary Belinda M J , Saravanan Muthaiyah , Thein Oak Kyaw Zaw
621	Enhancing Interoperability in Healthcare Management Systems Through the Integration of Blockchain Technology and Big Data	Gunasekar Thangarasu , Kayalvizhi Subramanian , Nattar Kannan , Carmel Mary Belinda M J , Saravanan Muthaiyah , Thein Oak Kyaw Zaw
622	Comprehensive Credit Risk Evaluation in Supply Chain Enterprises Using Machine Learning Techniques	Gunasekar Thangarasu , Kayalvizhi Subramanian , Nattar Kannan , Carmel Mary Belinda M J , Saravanan Muthaiyah , Thein Oak Kyaw Zaw
623	Optimizing Search Engine Functionality and User Engagement via Genetic Deep Intelligence in Information Retrieval	Gunasekar Thangarasu , Kayalvizhi Subramanian , Nattar Kannan , Carmel Mary Belinda M J , Saravanan Muthaiyah , Thein Oak Kyaw Zaw
634	Multilingual Lie Detection via Emotion and Multimodal Cues	Tao Guo; Changhe Xiao, Yiming Kan, Zhiang Zhang , Yaxin Zheng , Humaira Ashraf
635	AI-Powered Sustainability: Bridging the Gap to Affordable and Clean Energy	Fathimathul Rajeena P.P , Saira Muzafar

636	Cybersecurity in Saudi Arabia's Smart Digital Ecosystem	Hissah Almuhaysh, Maryam Alnajim, Ghadeer Al Dhamen Taif Fawaz Saira Muzafar
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Technical Session – D2-T3-E		
Time [CAT]		
14:20 - 15:30	Chair 1: <b>Dr Muhammad Tayyab, Taylor's University, Malaysia</b> Chair 2: Ms Jordaania Andima, Namibia University of Science and Technology Moderator: Mr Akot Benjamin Awanda Makuach, NUST	

Paper ID	Title of Paper	Author(s)
637	Automated Deception Detection in Videos Using 3DCNN	NZ Jhanjhi
416	Development of an AI-based Speech Recognition System for Chinese Dialects: A Case Study	Liu Zhengjie , Moshen Moshen
446	Research On Wholegrain Yield Prediction In China Based On Machine Learning	Fu Changyitao ; Sayan Ray
457	AI Virtual Inspection and Environmental Monitoring Platform	GUO JIAWEN; Afizan Azaman
523	Advanced PAPR Reduction Techniques for 5G and B5G Waveforms: A Vandermonde Matrix-Particle Transmission Sequence Approach	Nidhi Gour ; Surendra Yadav
529	Performance Analysis of Uniform Fiber Bragg Grating for Enhanced Reflectivity and reduced Sidelobes in Medical Sensing	Santosh Jagtap; Ashok Jetawat; Saurabh Mehta ; Jayshree Jain

15:30 - 15:45	TEA BREAK
African Research Symposium: Technical Session – D2-T4-B	
Time [CAT]	
15:45 - 17:30	Chair 1: Dr Pankaj Jain, JECRC University, Jaipur, India Chair 2: Ms Jovita Mateus, Namibia University of Science and Technology Moderator: Mr Joao Baptista Bastos, NUST

Paper ID	Title of Paper	Author(s)
611	Artificial Intelligence-Driven Model for Evaluating the Economic Impact of Cross-Border Dam Water Release in Nigeria.	Evans Woherem, Joshua Odeyemi, and Paulinus Ugwoke
461	Metaheuristics With or Without Chaos	Sunday Oladejo *

32	Designing Data Warehousing For Resource Allocation In The Ministry Of Health And Wellness,Botswana	Alton Mabina, Gabofetswe Malema, Cleverance Kombe
51	Navigating System with Road Obstacle Detection and Classification Using Deep Learning Techniques	Olufisayo Ekundayo, Jelil Agbo-Ajala, Lateef Akinyemi, David Attipoe, Donatien Moulla, Sree THOTTEMPUDI, Ernest Mnkandla, Jelil Agbo-Ajala
222	AI for Smart Cities: An Explanatory Analysis on Fleet Maintenance and Optimisation	Sree Ganesh Thottempudi, Ernest Mnkandla, Themba Masombuka, David Attipoe, Donatien Koulla Moulla, Vincent Idah VI Majanga, Olufisayo Sunday Ekundayo
230	Coordinated Beamforming for Interference Management in a CoMP-Based Integrated Terrestrial and Non-Terrestrial Network	ODONGO ARNOLD, BABIRYE HAFSWA NDAGIRE, BIRABWA J. DENISE
358	Improved Intrusion Detection Model using Moderated Autoencoder for Feature Selection and Optimized Softmax Regression for Multiclass Classification of Attacks	Abdulkarim Onuja, Olawale Adebayo, Morufu Olalere, Hamzat Aliyu
231	Delay-Aware Path Selection and Resource Allocation in D2D Relay-Aided Communication Network	Ambrose Ochen, Kembabazi Sheilah, Denise Birabwa

## Workshop

Time (CAT)	Workshop on High Performance Computing for Coastal Modelling-- D2-T4-C
14:30- 15:30	Chair 1: Prof Jose Quenum, NUST Chair 2: Mr. Anton Limbo, UNAM Moderator:Mr Edward Amos Jacob Chisala, NUST

Paper ID	Title of Paper	Author[s]
593	Auto-response mechanism for HPC job's issue resolution using a machine learning approach	Om Jadhav, Dharm Singh Jat and Sabbi Vamshi Krishna
524	Deep Learning with Optical Flow Attention for Coastal Wave Prediction	Abubakar Hamisu Kamagata, Dharm Singh Jat, Saravanakumar Paramasivam, Attlee M. Gamundani and Almustapha A Wakili

	PARAM!ARUB HPC Research and Innovation	Dr Arpit Jain
	HPC Configuration: Cluster Architecture & Hardware	Prof Jose Quenum
	Prof Jose Quenum, Prof Dharm Singh Jat and Dr Arpit Jain	Workshop Recommendation and Way Forward

## FCI Research Seminar

Time [CAT]	FCI Research Seminar D2-RS1-A
14:00 - 15:30	Chair 1: Dr Ajay Kumar, JECRC University, Jaipur, India Chair 2: Mr Julius Silaa, Namibia University of Science and Technology Moderator: Mr Abubakar Hamisu Kamagata, NUST

Time [CAT]	Title	Keynote Speaker
14:00-14:20	Visualisation and Despeckling of Ultrasonic Images in Medical Image Processing.	<b>Prof Manju Mandot</b> Director: Department of Computer Science and IT JRN, Rajasthan Vidhyapeeth University, Udaipur-Rajasthan-India.

Abstract ID	Title of Abstract	Author(s)
A1	Co-Designing and Developing a Predictive Model with Indigenous Knowledge Holders for Livestock Disease Management in Selected Communities from Namibia	Shwele Phulu, Ambrose Azeta, Gereon Koch Kapuire, Steven Tjiraso.
A2	An Investigation into AI-Driven Offline-First Learning Platforms: A Systematic Literature Review	Wilbard Lazarus, Josephina Muntuumo
A3	Development of a Retrieval-Augmented Generation (RAG)-Based Chatbot to Support the Delivery of STEM Education Curricula	Isabel Tchikenge, Josephina Muntuumo
A4	Reimagining Knowledge Transfer: Co-Designing a VR Simulation to Unite Ovahimba Generations Through Shared Learning	Keneth Nekundi, Gereon Koch Kapuire
A5	Design and Implement AI-driven Detection and Prediction of Emotional Struggles of University Students in Namibia	Keith Kasika, Arpit Jain
A6	Educational Game Development: Integrating DevOps Principles to Manage Game Design Projects in Learning Environments	Taloshili Nghiwewelekwa, Josephina Muntuumo
A7	Automated Land Cover Classification Using Deep Learning in Namibia	Magano A.N Mbango, Ambrose Azeta

A8	Localising Technical Hydroponics Concepts for Otjisa: A Software-Enabled Descriptive Translation Approach	Frans Nekongo, Gereon Koch Kapuire, Sarina Till, Taryn Wilson.
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<b>15:30 - 15:45</b>	<b>TEA BREAK</b>
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Time (CAT)	FCI Research Seminar D2-RS2-A
<b>15:45 - 17:30</b>	Chair 1: <b>Dr Ajay Kumar, JECRC University, Jaipur, India</b> Chair 2: <b>Ms Katazo N Amunkete, Namibia University of Science and Technology</b> Moderator: <b>Mr Abubakar Hamisu Kamagata, NUST</b>

Abstract ID	Title of Abstract	Author(s)
A9	Assessing The Confidentiality of Patient Information in Namibia's Health Sector: Challenges & Compliance.	Abraham Nekwaya, Isaac Nhamu
A10	An Investigation into the Effectiveness of Digital Forensic Tools in Detecting Unimodal Deepfakes	Freedom Taati Amupolo, Isaac Nhamu
A11	eSIM Adoption In Namibia: Risks, Threats, Vulnerabilities, and Mitigation Strategies	Justin Rittmann, Isaac Nhamu
A12	Exploring the Impact of Virtual Reality Simulations on Learner Engagement and Conceptual Understanding in Sustainable STEM Education	Omukwathi Mbandeka, Josephina Muutuumo
A13	Developing a Scalable Virtual Robotics Simulator: A Software Engineering Approach for Namibian K–12 Education	Ponti Muyenga-Muyenga, Josephina Muntuumo
A14	A Scholarly Research Output Crawler	Mushukutu Tanaka Lewis, Jose Quenum
A15	Co-Designing and Developing a Virtual Reality Educational Game to Promote Ovahimba Traditional Attire Among the Ovahimba Youth	Laurinda Ndjao, Gereon Koch Kapuire
A16	Hybrid Encryption Techniques For Blockchain Hyperledger Fabric-Based Cloud Storage Systems	Victor Ndevaetela, Mercy Chitauro, Victoria Shakela
A17	Developing Random Forest Algorithm for Personalized TB Treatment Based on Patient History	Abraham Salomo Panduleni, Ambrose Azeta



Time (CAT)	FCI Research Seminar D2-RS3-A
15:45 - 17:30	Chair 1: <b>Dr Vaibhav Bhatnagar, Manipal University, Jaipur</b> Chair 2: <b>Mr Mike Kale, Namibia University of Science and Technology</b> Moderator: <b>Mr Abubakar Hamisu Kamagata, NUST</b>

Abstract ID	Title of Abstract	Author(s)
A18	Design and Development of an Improved Intrusion Detection System using Explainable Ensemble Learning	Rushabdha Gamare, Dharm Singh Jat, Arpit Jain
A19	Developing A Machine Learning Model To Detect Sim Swapping Fraud On Namibian Mobile Telecommunication Networks	João Baptista Bastos, Fungai Bhunu Shava, Simon Muchinenyika
A20	An Analysis of Machine Learning Algorithms for Predicting Future Electricity End-User Tariffs: A Case Study of Windhoek, Namibia	Sarlote Ndapandula Ngwena, Ambrose Azeta
A21	A Framework for Culturally Responsive Computing to Address the Digital Divide in Namibia Higher Education: A Case Study of Namibia University of Science and Technology	Vistorina Megameno Ugulu, Gabriel Nhinda
A22	Development of a Context-Aware Implementation Framework for Windhoek that Supports the Effective Integration of Prepaid Utility Services Into the Existing System Infrastructure. Case Study of the City of Windhoek	Vezera Handura, Gabriel Nhinda
A23	Developing a Deep Learning-based Automated Program Repair IDE Plugin for Android Mobile Applications Written in Kotlin	Akot Benjamin Awanda, Hippolyte N. Muyingi
A24	Development of Machine Learning Experimental Testbed for the Prediction of Nearshore Wave Peak Periods	Abubakar Hamisu Kamagata, Dharm Singh Jat, Saravanakumar Paramasivam, Attlee M. Gamundani
A25	Development of Context-Aware Adaptive AI Model for Injury Prediction and Prevention in Namibian Football	Cephas Pahla, Fungai Bhunu Shava, Guy-Alain Zodi Lusilao

## Research Day Valedictory Session

Time: 17:35-18:00 (CAT)

Time (CAT)	Activity	Presenter/Speaker
17:35	<b>From Researchers</b>	Feedback

17:50	<b>Prof Fungai Bhunu Shava</b> , Acting Executive Dean <b>Prof Guy-Alain Zodi</b> , Associate Dean <b>Prof Suama Hamunyela</b> , Associate Dean <b>Prof Ambrose Azeta</b> , Coordinator: FCI Research Seminar	Best FCI Presentation Awards
17:50	<b>Prof Suama Hamunyela</b>	Concluding Remarks
17:55	<b>Prof Ambrose Azeta</b>	Vote of Thanks

## DAY 3

Date: Thursday, 7 August 2025

Time: 08:30 - 1:00 [CAT]

Time [CAT]	Technical Session D3-T1-A
8:30 -10.00	Chair 1: <b>Dr Geeta Rani</b> , Manipal University, Jaipur Chair 2: <b>Mr Naftal Indongo</b> , Namibia University of Science and Technology Moderator: <b>Mr Abubakar Hamisu Kamagata</b> , NUST

Paper ID	Title of Paper	Author[s]
097	AI-Based Medical Diagnosis System Using Machine Learning	Jagdish Chandra Patni, A Ezil Sam Leni, Aryan Singh, Pragatindu Yajnashree Parida, Abhinav Pratap Singh, Poorva Agrawal and Harshala Shingne
100	Memory Defender: Shielding Against Fileless Malware With Machine Learning	Anil Tailor and Jyoti Gajrani
561	Cloud Integrated Accounting Bigdata Analytics for Secure Internet Banking Using Mixture Attention and Deep Neural Network	Aswin Babu Rasipuram Sivaselvan, Thilakavathi Sankaran, Manoj Pal, Suchithpal Reddy, Varun Malik and Sanjay Singla
562	Deep Learning-Driven Sustainable Data Architecture for Financial Forecasting and Decision Support in Financial Institutions	Himani Fnu, Mahatma Reddy Marri, Shweta Gupta, Raju Katukam, Priti Singla and Kavita Arora
591	Artificial Intelligence (AI)-Powered Fault Detection Predictive Maintenance for Industrial Machinery A Reliability Engineering Perspective	Gopikrishna Maddali
538	Adaptive Ai-Driven Intrusion Detection Systems for Unmanned Aerial Vehicles Networks	Dr. Sundarajan M; Sivaneasan Bala Krishnan; Senthil Murugan V; Prasun Chakrabarti

Time (CAT)		Technical Session D3-T1-B
8:30 -10.00		Chair 1: <b>Dr Jyoti Gajrani, Govt Engineering College Ajmer</b> Chair 2: <b>Dr Goh Wei Wei, Taylor's University, Malaysia</b> Moderator: <b>Mr Joao Baptista Bastos, NUST</b>
Paper ID	Title of Paper	Author(s)
110	Optimizing Search and Rescue Missions Using Artificial Intelligence for Automated Aerial Image Processing and Analysis	K Suneetha, Kalaipriya O, Tapasmini Sahoo
115	An Intelligent Image Fusion Algorithm for Multi-Modal Brain Medical Imaging Using Advanced Computational Methods	Kruti Deepa, Biswaranjan Swain, Murugan R
116	Multi-Stage Neural Network Model for High-Precision Crater Detection in High-Resolution Orbital Remote Sensing Data	Sandeep V, Manisha Niraj, Saumendra Kumar Mohanty
118	Autonomous Multi-Robot Mapping: Scalable P2P Communication and AI-Driven Communication Framework	Raja Praveen K N, E Nisha Flora Boby, Bhagyalaxmi Behera
119	Design and Optimization of Low-Power Embedded Video Tracking Systems Using a Swarm Intelligence Algorithm	Siddharth Sahany, Naveen Kumar Rajendran, M D Anto Praveena
120	Development of an AI-Based Screening System for Predicting Drug Stability in Gastrointestinal Microbiota Interactions	Bichitrnanda Patra, Ezhilarasan Ganesan, Kanimozhi M

Time (CAT)		Technical Session D3-T1-C
8:30 -10.00		Chair 1: <b>Dr Ahmed Khan, Taylor's University, Malaysia</b> Chair 2: <b>Ms Victoria Shakela, Namibia University of Science and Technology</b> Moderator: <b>Mr Edward Amos Jacob Chisala, NUST</b>
Paper ID	Title of Paper	Author(s)
121	Developing a Robust Smart Grid: Leveraging AI and Sensor Networks for Predictive Power Management	Ganesh D, Jayaprakash S, Pradeep Kumar Mohanty
122	Enhancing Communication Efficiency in Unmanned Aerial Vehicle Networks Using Adaptive Contention Window Adjustment	Dushyanth V Babu, M Somasekar, Pritam Keshari Sahoo

125	Intelligent Computer Vision Model for Brain Sub-Region Segmentation and Classification in Alzheimer's disease Detection	Akash Kumar Bhagat, Sumukh Pandey, Malepati Chandra Sekhar
129	Design and Development of Explainable AI-Based Hand Gesture Recognition for Real-Time Human-Computer Interaction	Syed Rashid Anwar, Amiya Dhar Dwivedi, Md Ziaur Rahman
134	Optimizing Biofuel-Powered Diesel Engine Performance and Emissions Using Computational Intelligence Techniques	Shakti Prakash Jena, Beemkumar Nagappan, S. Jancy
135	Predictive Modeling of Air Traffic Scenarios for Enhanced Decision Support in Terminal Maneuvering Airspace Operations	Dr Anupam Kumari , Khushbu Pandey , Dr.Serin V Simpson

Time [CAT]                      Technical Session D3-T1-D		
8:30 -10.00		Chair 1: <b>Dr Tehmina Karamat Khan</b> , Taylor's University, Malaysia Chair 2: <b>Mr Peter Gallert</b> , Namibia University of Science and Technology Moderator: Mr Werkinah Eshete, NUST
Paper ID	Title of Paper	Author[s]
136	Multimodal Computer Vision-Based Diagnostic Framework for Early Detection of Oral Squamous Cell Carcinoma	Dr Binod Kr Choudhary , Kusum Lata, Kuppala Saritha
137	Advanced Computational Method for Enhancing Sonar-Based Acoustic Source Classification in Challenging Marine Environments	Anup Kumar, Awakash Mishra, Vineetha B
138	Distributed Clustering Protocols in Cognitive Radio Networks: A Self-Organizing Framework for Dynamic Spectrum Access	Dr. Trapty Agarwal, Kuppala Saritha, Amit Prakash Sen
139	An Advanced Multi-Modal Data Augmentation Model for Enhanced Computational Target Recognition in Aerial Imaging Systems	Dr. Kusum Lata, Hariharan V , Chandra Prabha Sahu
142	High-Performance Trust-Aware Routing Framework for Secure and Energy-Efficient Industrial IoT Systems	Avinash Samantra ,Vinay Kumar Sadolalu Boregowda, V. Yokesh yokesh
143	Efficient PID Parameter Tuning for Quadcopter Stability Using Multi-Objective Optimization in Dynamic Flight Control	Leelambika K V , Keerti Rai ,Trapty Agarwal

Time (CAT)		Technical Session D3-T1-E
8:50 -10.00		Chair 1: <b>Dr Soobia Saeed</b> , Taylor's University, Malaysia Chair 2: <b>Ms Sinte Mutelo</b> , Namibia University of Science and Technology Moderator: Mr Akot Benjamin Awanda Makuach, NUST
Paper ID	Title of Paper	Author[s]
146	An Intelligent Energy Management Model Integrating Renewable Energy and Smart Grids for Optimal Power Distribution	Yogeetha B R , Shailesh Kumar , Khushbu Pandey
147	A Novel Machine Learning-Based Cyber Defense Framework for Detecting Malware in Auto-Driving Vehicle Networks	Pratyashi Satapathy, Siksha 'O' Anusandhan, Bhubaneswar, Odisha, Sunil Mp Jain, A.C Santha Sheela
148	Application of Remote Sensing and Computational Intelligence for Flash Flood Risk Prediction Using Hydrological and Topographic Data	Trapti Agarwal, Sharon M, Astik Kumar Pradhan
149	Optimized Deep Neural Network Architecture for High-Precision Crack Detection in Large-Scale Civil Structures	Sasanka Choudhury, Siksha 'O' Anusandhan, Bhubaneswar, Odisha, Aravindan Munusamy Kalidhas, Ms.T. Anandhi
150	A Robust and Scalable Task Scheduling Framework for Optimizing Resource Utilization in Cyber-Physical Systems	Tintu Vijayan, Sneha Kashyap, Kusum Lata
156	Leveraging Graph-Optimized Neural Networks and Topological Embeddings for Scalable Cyber Threat Detection in IoT Networks	Gaurav Yadav, Siddharth Sriram, Rakhi Chakraborty,,M Saravanan, Madhur Grover, M.P. Karthikeyan

10:00 - 10:15	TEA BREAK
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Time (CAT)		Technical Session D3-T2-A
10:15 - 11.45		Speaker and Chair 1: <b>Dr Shakeel Ahmed</b> , Taylor's University, Malaysia Chair 2: <b>Ms Shilumbe Chivuno-Kuria</b> , Namibia University of Science and Technology Moderator: Mr Abubakar Hamisu Kamagata, NUST

Paper ID	Title of Paper	Author[s]
157	Optimizing Deep Learning Inference for Energy-Constrained IoT Devices in Smart City Environments	Vinod Goje, Sri Ranganath Seelam, Sangeeta Singh, Dasari Girish , Aashish Mishra,, Ashot Gevorgyan
158	Post-Edge AI Implementation for Low-Latency Processing in 6G Ecosystems to Support Intelligent Decision-Making	Bharat Maheshwari, S L Jany Shabu, Wamika Goyal Goyal, Jagmeet Sohal, Ashwini Kumar , Haripriya V
159	Federated Learning Framework for Privacy-Preserving Health Monitoring via IoT Devices	Sri Ranganath Seelam , Venkata Reddy Pasam, Laxman Doddipatla , Ajay Pandey, Hemalatha Naga Himabindu Gurajada
160	Improving Cyber Resilience in Smart Cities through Bi-LSTM-based Intrusion Detection	Ananta Ojha, Mary Gladence, Deepak Minhas, Pubali Chatterjee, Sahil Suri, Souvik Singh Rathor
161	Integrating Quantum and Blockchain Security to Enhance Intelligent Transport Systems in Vehicular Networks	Surjit Paul, Tribhuvan Singh, Sorabh Sharma, Kamalraj R, Sathya Bama Krishna, Abhinav Mishra
162	Enhancing Cybersecurity Automation with Capsule Networks for Dynamic Threat Detection and Defense	Shikhar Gupta, RamKuma Krishnamoorthy, Asha P, Nidhi Dua, Srijit Chowdhury, Suhas Gupta

Time (CAT)	Technical Session D3-T2-B
10:15 - 11.45	Chair 1: Dr Reema Thabit, Taylor's University, Malaysia Chair 2: Ms Ndinelago Nashandi, Namibia University of Science and Technology Moderator: Mr Joao Baptista Bastos, NUST

Paper ID	Title of Paper	Author[s]
163	Exploring the Role of Post-Quantum Cryptography in Safeguarding Data in Future Network Communications	Megalan Leo L , Tarun Kapoor , Lovish Dhingra , Ashwini Kumar , Ananta Ojha , Bata Krishna Tripathy
164	Interpretable AI Models for IoT-Enabled Environmental Monitoring and Disaster Risk Forecasting	md Tarek hasan, Abhishek Jain, Divyaraj Singh Jatav, Prateek, Ravi kiran gadiraju, Sai Arundeeep Aetukuri
165	Deep Learning and Quantum Computing for Advanced Risk Assessment, Financial Optimization, and Fraud Prevention	Sidhant Das, Sugantha Kumar L, S Jancy, Keerti Rai , Bappa Ghosh, Mridula Gupta

167	Efficient multistage damage detection using graph theory and hybrid optimization with harris eagle search algorithm (hesa)	A. Dinesh Kumar, R. Sivaraman, M. Vasuki
168	AI-Powered Personalization Transforming Digital Commerce through Customer Interactions	Madhur Taneja, Md Irfan Ahmed, Anima Pradhan, Sourav Rampal, Muthukumar B, Merlin Mary Jenitha
169	Enhancing Secure Network Management with Federated Learning and Blockchain Technology Powered by AI	S Balamurugan, I Rexiline Sheeba, B Reddy, Suneeta Satapathy, Ayush Gandhi, Anupam Kumari

Time (CAT)	Technical Session D3-T2-C
10:15 - 11.45	Chair 1: <b>Dr Siva Raja Sindiramutty, Taylor's University, Malaysia</b> Chair 2: <b>Ms Ndesihafela Kakwambi, Namibia University of Science and Technology</b> Moderator: <b>Mr Edward Amos Jacob Chisala, NUST</b>

Paper ID	Title of Paper	Author[s]
170	Exploring the Role of Zero Trust AI Frameworks in Cybersecurity for Large-Scale Dynamic Networks	Sukhman Ghumman, Prateek Garg, Shashi Bhushan Singh, I Brem Navas, S.Prayla Shyry
171	Leveraging Federated Learning to Enhance Privacy and Real-Time Decision-Making in IoT Networks	Rakhi Jha, Soumyashree Subhadarsini Panda, Dikshit Sharma, Kamalraj R, Muthiah M A, Abhishek Singla
172	Enhancing Cyber Threat Mitigation and Simulation in Virtual Spaces with AI-Driven Digital Twins	Sangita Rani Kar, Pratibha Sharma, Surjit Paul, Nirmalrani V, Bharat Bhushan, kala kala
173	Enhancing Smart Grids Intrusion Detection with Cybersecurity Resilience and Reinforcement Deep Learning	Smruti Rekha Pattnaik, Savinder Kaur, Astik Kumar Pradhan, M Kavitha, Nitish Vashisht, Kannagi Anbazhagan
174	Augmented Reality-Driven Smart Retail Experiences Powered by Deep Learning and Computer Vision	Shivam Khurana, Kannagi Anbazhagan, S. Vigneshwari Vigneshwari, Arvind Kumar Pandey, Lambodar Jena, Anubhav Bhalla
175	Optimizing Charging Strategies for Electric Vehicles in Intelligent Transportation Systems Using Genetic Algorithms	Amit Prakash Sen, Meenakshi Das, Sunila Choudhary, Pushpa J, Ramya D, Amritpal Sidhu

Time (CAT)	Technical Session D3-T2-D
10:15 - 11.45	Chair 1: Prof Vinay Rishiwal, MJP Rohilkhand University, Bareilly Chair 2: Dr Arafat Mohammed Rashad Al-Dhaqm, Taylor's University, Malaysia Moderator: Mr Werkinah Eshete, NUST

Paper ID	Title of Paper	Author[s]
176	Enhancing Data Security and Encryption in Virtual Worlds through AI and Quantum Computing Integration	Kamalraj R, Chinmayee Nayak, G. Sundari, Himanshu Makhija, Ashmeet Kaur, Souvik Singh Rathor
177	Ensuring Secure and Privacy-Preserving Data Sharing in Connected Vehicles Using Multi-Party Differential Privacy Computation	Anupam Kumari, Haripriya V, Bijay Kumar Paikaray, Magthelin Therase Louis, Rajat Saini, Kanika Seth
178	AI-Driven Predictive Maintenance in Manufacturing Using Bayesian Inference Models	Karthikeyan S, Abhinav Rathour, Yuvraj Parmar, Rakhi Chakraborty, Rahul Pawar, Manoj Kumar Naik
179	Evaluating Cybersecurity Risks in Smart Manufacturing with Bayesian and Hybrid Fuzzy Logic Networks	Pushpa J, Kumari Kasturi, Dhamodaran S, Rahul Thakur, Avni Garg, Sneha Kashyap
180	Neural Networks Inspired by Biology for Developing Self-Healing Communication Systems in Disaster Areas	S Gowri, Jatin Khurana, Manju Bargavi S K, Ansh Kataria, Shashi Bhushan Singh, Rama Ranjan Panda
181	Leveraging Reinforcement Learning to Optimize Traffic Flow for Sustainable Mobility in Smart Cities	Sebamai Parija, Tannmay Gupta, Keerti Rai, T G Ruby Angel, Sourav Rampal, Rengarajan A.

Time (CAT)	Technical Session D3-T2-E
10:15 - 11.45	Chair 1: Dr Preeti Yadav, MJP RohilKhand University, Bareilly Chair 2: Dr Shabana Anjum Shaik, Taylor's University, Malaysia Moderator: Mr Akot Benjamin Awanda Makuach, NUST

Paper ID	Title of Paper	Author[s]
182	Wearable Data-Based Personalized Healthcare Recommendations Using Natural Language Processing	Pravati Nayak, Sumeet Singh Sarpal, Shaliendra Kumar Sinha, Krishnamoorthy. NR, Bhavuk Samrat, Reethu Shibhalini K S



184	Transforming Disaster Management with Metaverse-Enabled Crisis Response and Digital Twin Simulation	R. Aroul Canessane, Frederick Sidney Correa, Manish Nagpal, Jyotirmaya Sahoo, Jyotirmaya Sahoo Ayesha, Rangaballav Pradhan
185	Privacy Preservation in IoT Networks through Homomorphic Encryption in Edge Computing	Jayashree Jayashree, Srijia Chakraborty, M D Anto, Saniya Khurana, Lakshya Swarup, Shaliendra Kumar Sinha
215	A Systematic Review of AI-Medical Image Processing Techniques for Colon Cancer Diagnosis	Jie Li, Weiwei Goh, N.Z. Jhanjhi
343	Explainable AI for Change Management Strategy Development: Making Machine-Generated Recommendations Transparent to Executives	Shikha Verma Kashyap, Shradha Purohit, Arvind Kumar, Farah Iqbal Mohd Jawaaid, Vijay Uprikar, Renuka Deshpande.
616	Leveraging Artificial Intelligence for Sustainable Smart Cities: A Multi-Modal Framework for Urban Transformation	Muthaiyah, Saravanan; Pui Kwan , Fong ; Oak Kyaw Zaw , Thein ; Ee Xion , Tan*; Kuan Chuah , Tong ; Thangarasu, Gunasekar

Time (CAT)	Technical Session -D3-T3-A
11:45 - 13.00	Chair 1: <b>Dr Goh Wei Wei, Taylor's University, Malaysia</b> Chair 2: <b>Mr Siddharth Singh, Lawrence Livermore National Laboratory, USA</b> Moderator: <b>Mr Abubakar Hamisu Kamagata, NUST</b>

Paper ID	Title of Paper	Author[s]
344	Sustainable Business Strategy Modeling Using Big Data and Multi-Objective Optimization Techniques	Aarfa Rajput, Sadhna Bagchi, Manasi Vivek Kulkarni, Harinder Pal Singh, Shaishta Khan
345	Generative Adversarial Networks for Stylized Animation Frame Interpolation and Smoothing	Adarsh Kumar, Auguru Vasant, Bhushan Dhanraj Zope, Arvin Vinayek
346	Real-Time Animation Rendering Optimization Using Reinforcement Learning and Neural Radiance Fields (NeRF)	Mandeep Kaur, PBS Subramaniam, Syed Fahar Ali, Sneha Umakant Agalawe
347	Big Data-Driven Character Behaviour Prediction for Adaptive Animation Storytelling	Shikha Gupta, Ganesh Korwar, Shiv Kumar, Tarun Kumar
348	Self-Supervised Learning for Motion Synthesis and Prediction in Animated Characters	Prosenjit Mazumdar, Khushboo, Ganesh Korwar, Rohit Kumar

349	Cinematic Scene Classification and Shot Boundary Detection Using Hybrid CNN-LSTM Networks	Nivedita Ghodke, Mani Nandini Sharma, Jayashri Prasad Chaudhari, Ashok Bairagi, Shreya Gandhi
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Time (CAT)	Technical Session -D3-T3-B
11:45 - 13.00	Chair 1: <b>Dr Rashmi Chaudhry, Netaji Subhash University of Technology, Delhi</b> Chair 2: <b>Dr Noor Hasrina Bakar, Taylor's University, Malaysia</b> Moderator: Mr Joao Baptista Bastos, NUST

Paper ID	Title of Paper	Author[s]
350	AI-Driven Script-to-Scene Translation for Automated Cinematic Pre-Visualization	Nihar Das, Gajanan Chavan, Birju Kumar Rajak, Simrandeep Kaur
352	Automatic Genre Classification in Movies Using Multimodal Deep Learning Techniques	Rishav Lodh, Silky Arora, Nitesh Kumar Kushwaha, Milind Patil
353	Real-Time Emotion Recognition in Film Scenes Using Attention-Based 3D CNN Models	Anjali Sharma, Tanbir Aurid, Ajay Ramesh Katekar, Suhail Manzoor
354	Predictive Modeling of Box Office Success Using Machine Learning and Historical Movie Data	Ankit Shukla, Kanika Handa, Pratik Kodmalwar, Gouri Moharana, Kanchan Makarand Sangamwar, Abhijeet Chiwande
355	Explainable AI for Style Interpretation in Contemporary Art Using Vision Transformers	Nikil Tiwari, Naman Soni, Rupinder Kaur Grewal, Jay Vasani, Rahul Anantrao Padgilwar, Nitin Rakesh
356	Fusion of AI and Traditional Techniques: A Neural Rendering Framework for Enhancing Hand-Drawn Sketches	Farzeen Ashfaq, Savita Nanakram Keshwani, Dr. Shashi Priya, Akash Biswas, Anureet Kaur

Time (CAT)	Technical Session -D3-T3-C
11:45 - 13.00	Chair 1: <b>Dr Poornima Mahadevappa, Taylor's University, Malaysia</b> Chair 2: Moderator: Mr Edward Amos Jacob Chisala, NUST

Paper ID	Title of Paper	Author[s]
357	Digital Muse: Building a Recommender System for Artists Using Creative Data Mining and Visual Similarity	Ragini Singh, Navnath B. Pokale, Sakshi Singh, Vaidehi Arun Dixit, Dr. Ankita Makker

359	Generative Design in Fashion: Using GANs for Fabric Pattern Creation and Virtual Draping Simulations	Pradnya Yuvraj Patil, Tarushee Sachdevam, Varun Awasthi, Aadil Ahmed Mantoo
363	AI-Powered Tourist Behavior Prediction Using Multi-Modal Big Data from Social Media, Reviews, and Location Data	Kumar Bhaskar, Nihar Das, Diptee Tanmay Shete, Lalita Sureshrao, Simranjit Kaur
364	Smart Tourism Recommender Systems: Hybrid Deep Learning Models for Personalized Travel Itinerary Planning	Touseef Ahmed Lone, Saket Kumar Singh, Kirti Oberoi, Chandrashekhar Ramesh Ramtirthkar, Pritam Lanjewar, Shantanu Prakash
365	Augmented Reality Powered by AI for Virtual Interior Design and Real-Time Aesthetic Feedback	Nitesh Kumar Kushwaha, Jaspreet Singh, Prashant Anerao, Alfisha Salam
366	Smart Furnishing Recommendation System Using Visual Similarity and Natural Language Descriptions	Tapti Singh Rathore, Navnath B. Pokale, Prashant Anerao, Anjali Sharma, Arvind Kumar

Time (CAT)	Technical Session -D3-T3-D
11:45 - 13:00	Chair 1: Dr Muhammad Tayyab, Taylor's University, Malaysia Chair 2: Moderator: Mr Werkinah Eshete, NUST

Paper ID	Title of Paper	Author[s]
369	Speech-to-Text Accuracy and Emotion Detection for Broadcast Journalism Using AI	Rizwan Ayazuddin
370	Real-Time Media Monitoring System Using Machine Learning for Crisis Detection and Response Management	Akash Biswas, Adwaita Sameer Joshi, Ankisha Mishra, Arvin Vinayek, Amruta Mahale
371	Personalized News Recommender System Using Hybrid Collaborative Filtering and Content-Aware Deep Models	Kamal Upadhyay, Tarushee Sachdeva, Tarun Kumar, Milind Patil
373	Intelligent Enterprise Resource Planning (ERP) Using AI for Dynamic Resource Allocation and Forecasting	Dinesh Mirkute, Pooja Yadav, Kiran Ingale, Anvesha Jaulkar, Suhail Manzoor
374	Predictive Analytics for Financial Risk Management Using Ensemble Learning Techniques	Shweta Bajaj, Kiran Ingale, Dinesh Kumar Nayak, Rohit Kunar, Imran Khan, Saurabh Khonde

## Valedictory Session

Time (CAT)	Activity	Presenter / Speaker
13:00	Welcoming Remarks	<b>Dr Colin Stanley</b> Acting DVC Research, Innovation and Partnerships DVC: Research, Innovation and Partnerships, NUST
13:10	Recommendations of the Conferences	<b>Prof Dharm Singh Jat</b> Professor and UNESCO Chairholder
13:20	Remarks	<b>Prof A K Nayak</b> Pro-Chancellor: Global Open University, Nagaland
13:30	Remarks	<b>Prof Fungai Bhunu Shava,</b> General Chair, ETNCC
13:40	Vote of Thanks	<b>Dr Simon Muchinenyika</b> Head of Department: Software Engineering, NUST
13:40	LUNCH	