

**5th International Conference on “Emerging Trends and Technologies on Intelligent Systems”
(ETTIS-2025): Hybrid Mode**

19th - 21st March, 2025

Venue: CDAC Noida, B-30, Sector 62, Noida

Day 2: 20th March 2025, Thursday

TIMINGS	SESSIONS
10:00 -11:00	Invited Talk by Prof. Raj Kumar Buyya Director, Cloud Computing and Distributed Systems (CLOUDS) Lab, The University of Melbourne, Australia
11:00-11:30	TEA BREAK
PARALLEL SESSIONS	
11:30-13:30	Session 1: Information, Network & Cyber Security Session Chair: Prof. Abhijit Sen, Kwantlen Polytechnic University, Canada Invited Talk: "AI-Powered DevSecOps: Enhancing Security, Speed, and Compliance"
	Session 2: Emerging Trends and Technologies Session Chair: Prof. Anjana Gosain
13:30 - 14:30	LUNCH BREAK
PARALLEL SESSIONS	
14:30-16:30	Session 3: NLP and Object Detection Approaches Session Chair: Prof. Vishal Bhatnagar, NSUT Delhi
	Session 4: AI and ML Session Chair: Prof. Rolando Herrero, Northeastern University, Boston Invited Talk: “Transforming Digital Twins into Cognitive Digital Twins to enable Future Manufacturing”
16:00 - 18:00	Session 5: Quantum Computing & Hybrid Intelligent Sys Session Chair: Prof. Duc Pham, The University of Birmingham, UK Invited Talk: “Research into Robotic Disassembly for Smart Remanufacturing”

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Day 3: 21st March 2025, Friday

TIMINGS	SESSIONS
10:00 – 11:00	Invited Talk by Sh. Gauravjeet Singh Reen Taylor and Francis Group
11:00 – 11:30	TEA BREAK
11:30-13:30	Session 6: Emerging Trends and Technologies Session Chair: Prof. Emil Pricop, Petroleum-Gas University of Ploiesti, Romania Invited Talk: “Exploring the physical impact of cyber-attacks on industrial control systems”
	Session-7: Deep Learning, Fuzzy and Neural Networks Session Chair: Prof. Anil, Delhi Technological University (DTU) Invited Talk: "Transforming Healthcare with Intelligent Systems: The Impact of BERT, BioBERT, and Med-BERT in Biomedical Computing"
	Session 8: AI and ML Session Chair: Prof. Arvinder Kaur, USAR, GGSIPU, Delhi
	Session 9: Software Applications & Services in Healthcare Session Chair: Dr. Herat Joshi, Great River Health Systems, USA Invited Talk: “Empowering Healthcare with Analytics & Decision Support: A Strategic Approach to Data Utilization and Business Intelligence”
13:30-15:30	LUNCH BREAK
15:30-16:30	VALEDICTORY FUNCTION
16:30	HIGH TEA

Day 2: 20th March 2025 Schedule

Day 2: 20 th March 2025, Thursday (11:30-13:30)		
Session 1: Information, Network & Cyber Security		LAB-1
Session Chair: Prof. Abhijit Sen, Kwantlen Polytechnic University, Canada Invited Talk: "AI-Powered DevSecOps: Enhancing Security, Speed, and Compliance" Session Coordinator: Ms. Rosy Verma		
S. No.	Author	Paper Title
1	Rahulkrishnan Ravindran, Sabarinath U, Sidharth R Krishna and Namitha K	Secure Data Transformation: AES-256 Encryption, Image-Based Storage, and Efficient Compression for Modern Data Management (1202)
2	Rochas Agus Sonata, Agung Stefanus Kembau, Vincent Vincent, Jason Cuvario, Christian Haposan Pangaribuan and Emanuel Himawan Saptaputra	Knowledge, Self-Efficacy, and Motivation Predictors of Phishing Resilience (1359)
3	Saritha Nagaraju, Nishanth Kumar Pathi and Rashmi Agarwal	Cyber Resilience for Containerized Workloads: A NIST-Based Approach to Incident Management and Recovery (5835)
4	Muhammed Abeed Nabith	SECCODEPLT: A Unified Evaluation Platform for Code GenAI Security Risks (6810)
5	Ryo Yamashita and Shingo Yamaguchi	Methods for Reconnaissance and Elimination of Malicious Worms in Multiple Unobservable Regions Using Path Specified Worms (6858)
6	Emil Pricop and Sanda Florentina Mihalache	Quishing - a review of QR code attacks and a framework design for safe scanning (9335)

Day 2: 20 th March 2025, Thursday (11:30-13:30)		
Session 2: Emerging Trends and Technologies		LH-4
Session Chair: Prof. Anjana Gosain, GGSIPU Session Coordinator: Mr. Munish Kumar		
S.No.	Author	Paper Title
1	Rolando Herrero, Mallesham Dasari and Haitham Tayyar	Transforming Digital Twins into Cognitive Digital Twins to enable Future Manufacturing (2349)
2	Subitha D, Kavitha J C and Diwakar B.V.N.S.	SQL Query Optimization using Reinforcement Learning for Low-Power Computing System (2390)
3	Arunima Tripathi and Poornima Mittal	Stability Analysis of Robust 7T SRAM Cell for 32nm CMOS (3092)
4	Nitya Singh, Madhu Yadav, Pragya Gupta and Seeja K.R.	Waste forecasting for smart cities using Long Short-Term Memory (4940)
5	Dr. Pawan Whig	Integrating Evolutionary Computing for En-hanced Earthquake Risk Assessment (5797)
6	Sudeshna Ghosh, Jeebesh Chandra Podder, Sandipan Ghosal and Sajib Chowdhury	Disaster Management in the Digital Era: A Survey on the Integration of AI and UAVs in Disaster Response and Recovery (7820)

Day 2: 20th March 2025 Schedule

Day 2: 20 th March 2025, Thursday (14:30-16:30)		
Session 3: NLP and Object Detection Approaches		LAB-2
Session Chair: Prof. Vishal Bhatnagar, NSUT Delhi		
Session Coordinator: Mr. Rahul Mishra		
S.No.	Author	Paper Title
1	Ekta Ukey and Satishkumar L. Varma	Video Surveillance based on moving Vehicle Detection using Adaptive Gaussian and Otsu Thresholding (0129)
2	Piyal Roy, Rajat Pandit and Sudip Kumar Naskar	Towards Automated Complexity Analysis of Bengali Science Terms (1222)
3	Minh-Thu Nguyen, Vinh-Phuc Mai, Thuan-Tien Tran and Quoc-Khanh Huynh	Detecting Missing Products in Trays by Edge Detection and Shape Classification (1623)
4	Simanta Kalita, Khurshid Alam Borbora, Shikhar Kumar Sarma, Rup Kumar Deka, Siddhartha Adhyapok and Utpal Barman	LSTM-based Event Detection in a Stream of Assamese Text (4826)
5	Rupa Tanikonda, J Loyola Jasmine, K Devisree and M Vinay Kumar	Virtual Sensing for Crop Safety from Animals (6278)
6	Ansh Raj Sharma, Geetanshu Garg and Shilpa Verma	Balancing Positivity: Predicting the Influence of Toxic Positivity in Communication (7035)

Day 2: 20 th March 2025, Thursday (14:30-16:30)		
Session 4: AI & ML		LAB-3
Session Chair: Prof. Rolando Herrero, Northeastern University, Boston		
Invited Talk: “Transforming Digital Twins into Cognitive Digital Twins to enable Future Manufacturing”		
Session Coordinator: Mr. Manoj Purohit		
S. No.	Author	Paper Title
1	Md Abdullah Al Mahmud Pias, Abdul Ahad, Mohammad Moinul Islam, Dewan Aminul Islam, Ayon Mazumder, Maria Rahman, M Saif Sartaz and Muhammad Shoyabur Rahman Chowdhury	Predictive Modeling and Analysis of Software Engineers’ Salary Using Machine Learning (0719)
2	Dr. Pawan Whig	Evolutionary Computing in Promoting Sustainable Health through Fitness Tracker Data Analytics (1393)
3	Ajoy Kanti Das and Rajat Das	An innovative machine learning algorithm using neutrosophic soft sets for water resource management (3108)
4	Chengchen Huang and Shingo Yamaguchi	A Structured and Reusable Function Generation Method by Encapsulating Code Generated by LLMs with Helper Object (3663)
5	Yash Gupta, Kaushal Surana, Mridul Madhav Jindal, Shubh Kamra, Kuldeep Chaurasia and Kaushal Bhardwaj	Kisaan Bandhu: Machine Learning and Deep Learning Based Tools for Agro Based Predictions (4326)
6	Carbureanu Madalina and Rosca Cosmina-Mihaela	Evaluating Wastewater pH Prediction Solutions in Custom Python and C# Models (4795)
7	Uma Ojha and Ajay Kumar Yadav	Sarcasm Detection in Hindi-English Code-Mixed Language: A Systematic Survey (3269)

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Day 2: 20 th March 2025, Thursday (16:00-18:00)		
Session 5: Quantum Computing & Hybrid Intelligent Systems		LH-4
Session Chair: Prof. Duc Pham, The University of Birmingham, UK		
Invited Talk: “Research into Robotic Disassembly for Smart Remanufacturing”		
Session Coordinator: Mr. Munish Kumar		
S.No.	Author	Paper Title
1	Simhadri Tanya, Talluri Harshitha, Thadakaluru Jaswanthi, Puvvadi Harsha Vardhan and D Radha	Knowledge, Self-Efficacy, and Motivation Predictors of Phishing Resilience (1164)
2	Soumya S and T Chithralekha	An Ameliorated Evaluation Framework for Standardizing Quantum Encryption Algorithms (5041)
3	Quoc-Khanh Huynh, Van-Cuong Nguyen, Chi-Ngon Nguyen, Vinh-Phuc Mai, Phuong-Lan Tran-Nguyen and Minh-Thu Nguyen	The Rotary Feeding Hopper for the Fresh Chili Destemming System (6112)
4	Anisurrahman, Bashir Alam and Muhammad Hamid	Advances in Medical Image Classification using Quantum Machine Learning: A Survey (7835)
5	A Sai Venkateshwar Rao, Tarachand Amgoth and Ansuman Bhattacharya	Dynamic Query Vision Transformers and Hierarchical Latent Compression: Advancing Real Time Surveillance system (8766)
6	Aniket Bembale, Nagendra Singh, Vinayaka Poorma and Jitesh Choudhary	Quantum Computing for Graph Optimization: An Approach to the Shortest Path Problem (9774)

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Day 3: 21 st March 2025, Friday (11:30-13:30)		
Session 6: Emerging Trends and Technologies		LAB-1
Session Chair: Prof. Emil Pricop, Petroleum-Gas University of Ploiesti, Romania Invited Talk: “Exploring the physical impact of cyber-attacks on industrial control systems” Session Coordinator: Ms. Rosy Verma		
S.No.	Author	Paper Title
1	Rolando Herrero, Sergey Aityan, Abdolreza Mosaddegh and Haitham Tayyar	AI-driven Cyber-Physical System to support Selective Forward Error Correction in Digital Twin Emergency Medicine Real-Time Monitoring (0843)
2	Puvvada Kavya Sri, Bodduluri Asha Jyothi and Puvvada Kavya Sri	Robotic Vigilance: Autonomous Night Patrol Systems for Comprehensive Security (2612)
3	Mohammad Rezaul Karim, Sohag Kabir, Ci Lei and Raluca Lefticaru	Quantifying Security Events in IoT (5682)
4	Priyanka Mahadik, Jyotshna Dongardive and Vinay Tawde	Leveraging Large Language Models for Mental Health Diagnostic (7683)
5	Mohammad Shahid, Mahfooz Alam, Zubair Ashraf, Bishwajeet Pandey, Faisal Ahmad and Maria Lapina	Statistical Analysis based Performance Evaluation of Secured Workflow Allocation Model in Cloud Environment (8358)
6	Tashwin Sj, Tushar Pandita, Vatsal Agarwal, Tejas Ss and V R Badri Prasad	Enhancing Visual Simultaneous Localization and Mapping (VSLAM) Robustness in Dynamic Environments (8724)
7	Ummar Bashir and M. Tariq Banday	Exploring Security Vulnerabilities in Leading Large Language Models: A Comparative Study (8673)

Day 3: 21st March 2025 Schedule

Day 3: 21 st March 2025, Friday (11:30-13:30)		
Session 7: Deep Learning, Fuzzy and Neural Networks		LAB-2
Session Chair: Prof. Anil, Delhi Technological University (DTU)		
Invited Talk: " Transforming Healthcare with Intelligent Systems: The Impact of BERT, BioBERT, and Med-BERT in Biomedical Computing"		
Session Coordinator: Mr. Munish Kumar		
S.No.	Author	Paper Title
1	Shilpa Pimpalkar, Archit Barve, Subrat Acharya and Manjusree P	Comparative Evaluation of Deep Learning based Object Detection Techniques for Aircraft Detection (0057)
2	Manya Chandna, Abantika Dasgupta and Bhumika Gupta	Real-Time Sign Language Recognition Using Deep Learning on Edge Devices: A Jetson Nano Implementation (1076)
3	Sarthak Agrawal, Sonit Bahl, Divyansh Pansari and Bhawana Tyagi	Face Emotion Recognition using CNN and YOLOv8 (5576)
4	Bhavana Natuva, Smitha Rajagopal, Sasidhar Reddy Sakam, Harshitha Singara, Venkata Ganesh Reddy and Sandeep Motte	Deepfake Detection for Images (6878)
5	Sivachandra K B, Geetha P, Kritesh Kumar Gupta and Shashank A	Deep Learning-Driven MRI Stratification for Intracranial Tumor Subtype Resolution (6989)
6	Shanmukha Sudha Kiran Thotakura, Sai Sravya Sri Machavarapu, Akshay Kumar Kopparapu, Safuwan Shiblee, Suvarna B and Jhansi Lakshmi P	A Dual-Model Approach Utilizing Convolutional Autoencoders and Deep Neural Networks for Lung Cancer Detection (7891)

Day 3: 21 st March 2025, Friday (11:30-13:30)		
Session 8: AI and ML		LAB-3
Session Chair: Prof. Arvinder Kaur, USAR, GGSIPU, Delhi		
Session Coordinator: Mr. Manoj Purohit		
S.No.	Author	Paper Title
1	Sagar Gupta and Sandeep Voona	AI-Driven Anomaly Detection for Enhanced Business Process Orchestration (5677)
2	Rushikesh Gaikwad, Maheswara Rao Nalla, Soumyajit Gayen, Deepak Kumar Sahu, Sivaraman J, Kunal Pal and Bala Chakravarthy Neelapu	An Efficient Ensemble Strategy for Acute Lymphoblastic Leukemia Classification (6182)
3	Mahendra Kumar Gurve, Yamuna Prasad, Nitin and Marc Cahay	A Machine Learning Approach to Detecting Phishing Attacks Using LLM-Based Embeddings (6636)
4	A Nandana Krishnan, Archa Hari N, Kavya S, Sree Sai V G, Viswanathan K.	Flying High on Sustainability: A Global Analysis of Airport SDG Alignment and AI-Driven Innovations (7935)
5	Balajee Maram and Rohan Raj Maram	Boosting Breast Cancer Classification in Histopathological Images Through Federated Learning Techniques (8318)
6	Rasyid Alim Aulia and Sy Yuliani	Boosting Job Matching Accuracy: Implementing Content-Based Filtering in Job Applicant Recommendation Systems (9595)

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Session 9: Software Applications & Services in Healthcare		LH 4
Session Chair: Dr. Herat Joshi, Great River Health Systems, USA		
Invited Talk: “Empowering Healthcare with Analytics & Decision Support: A Strategic Approach to Data Utilization and Business Intelligence”		
Session Coordinator: Mr. Rahul Mishra		
S.No.	Author	Paper Title
1	Ankit Srivastava, Munesh Chandra, Ashim Saha and Sandipan Bhowmick	GEN AI in the Healthcare Industry: An Analysis of Privacy and Security Challenges, Emerging Models, Applications, and Limitations (0463)
2	Tanushka Guleria and Naveen Chauhan	Safeguarding Patient Privacy: Leveraging Federated Learning for Enhanced Anonymity and Identity Protection in Healthcare (3922)
3	Arunakumari B N, Swayam Khandelwal, Vijayakumar Mamadapur, Roopa L S and Suraj Kumar	Integrating CardioSense Technology and Predictive Analytics for Enhanced Cardiac Event Detection and Alerting (3947)
4	Ibrahim Momin, Vipin Kumar, Akshansh Gupta and Bharti Rana	Optimal Radiomics Feature Selection to Enhance the Alzheimer’s Disease Detection using Multi-view Learning Approach based-on Hippocampal MRI Data (4985)
5	Akshay A Poojary, Varsha Sajjanavar, N Abhishek, Tarun E and Prashant Narayankar	Radiology Images to Text Synthesis Using Multimodal Large Language Models for Generating Clinical Summaries (6538)
6	Soraisam Gobinkumar Singh, Dulumani Das and Utpal Barman	Integrating XAI with Optimized CNNs: A Novel Approach for Imbalanced Alzheimer’s Disease Classification (9472)