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Conference
Proceedings



1st ICSICST-2025

**1st International Conference on
Sustainable & Intelligent Computing in
Science and Technology, (Hybrid Mode)**

May 16-17, 2025



Inaugural Ceremony

Day 1 (Friday, 16 May, 2025)

Time Slot	Activity	Keynote, Session Chair & Co-Chair	Venue/ Online Link
8:30 AM – 09:30 AM	Registration	ICSICST Registration Team	Outside the Council Room
9:30 AM – 11:00 AM	Inaugural Session	ICSICST Registration Team	Seminar Hall meet.google.com/nrh-jyzy-dnp
11:00 AM – 12:00 PM	Lunch Break		
12:00 PM – 01:30 PM	Technical Session-1 (Offline Mode)	Session Chairs & Co-Chair Prof. (Dr.) Vimal Kumar Bhupatbhai Vaghela, Associate Professor, Computer Engineering Department, Government Engineering College, Gandhinagar, Gujarat Dr. Sanjay Kumar Sinha Professor, CS Department, PIET, Jaipur	Board Room (004) Academic Block – B
12:00 Noon – 01:30 PM	Technical Session-2	Session Chair & Co-Chair: Dr. Nitesh Pradhan, Assistant Professor, Department of Computer Science Engineering, LNMIIT, Jaipur Dr. Prince Dawar Associate Professor, PIET, Jaipur	meet.google.com/zcc-msvj-mar

Day 2 (Saturday, 17 May, 2025)

Time Slot	Activity	Keynote, Session Chair & Co-Chair	Meet Link
09:00 AM- 10:30 AM	Technical Session-3	Session Chair & Co-Chair Dr. Kapil Gupta Assistant Professor, Computer Applications, National Institute of Technology, Kurukshetra Dr. Ashish Laddha Associate Professor, PIET, Jaipur	meet.google.com/jcr- dwiv-vyq
11:00 Noon- 12:30 PM	Technical Session-4	Session Chair & Co-Chair Dr. Jyoti Grover Assistant Professor, Computer Science & Engineering Department, Malaviya National Institute of Tech. Jaipur Dr. Mahak Bhatia Associate Professor, PIET, Jaipur	meet.google.com/vas- ourv-gup
01:00 PM – 03:00 PM	Technical Session-5 & Valedictory Session	Session Chair & Co-Chair Dr. Suresh Kaswan Professor, Department of Computer Science Engineering, Chandigarh University, Punjab Dr. Nitin Mukesh Mathur Associate Professor, PIET, Jaipur	meet.google.com/ykg- ooot-hgp

Day 1: Technical Session-1 (Offline Mode), Date:- 16 May, 2025, Timing: 12:00 Noon – 01:30 PM

Venue :- Board Room (004), Academic Block – B

Theme :- Emerging Paradigms of Deep Learning

Session Chair :- Prof. (Dr.) Vimal Kumar Bhupatbhai Vaghela

Associate Professor, Computer Engineering Department, Government Engineering College, Gandhinagar, Gujarat

Session Co-Chair :- Dr. Sanjay Kumar Sinha, Professor, CS Department , PIET, Jaipur

S.No	Paper Id	Author Name	Paper Title	Institute
1	201	Prabhat Sharma, Shakti Singh , Dr. Seema Gaur	Deep Learning Approaches for Emotion Detection in Still Images and Video Sequences	Birla Institute of Technology, Mesra
2	150	Dr. Shikha Khullar, Sri Satya Sudhir Reddy, Rajesh Bolla, Jala Prasadaraao	A Comparative Study of XGBoost and Logistic Regression for Predicting Software Defects	Godavari Institute of Engineering and Technology, Rajahmundry, Andhra Pradesh
3	249	Gaurav Sharma, Manoj Kumar Sharma	A Novel Algorithm using Augmented Self-Balancing BST and Array Caching to Achieve Logarithmic Time Complexity for Insertion Operation	Manipal University Jaipur, Jaipur
4	93	Ms. Neeta Chudasama, Dr. Sandipkumar Ramanlal Panchal	Unveiling Brain Tumors: A Deep Dive into Deep Learning Approaches	Dr. Subhash University, Junagadh, Gujarat
5	297	Sanju Choudhary, Baldev Singh	Leveraging Machine Learning and Deep Learning for Plant Disease Identification: A Review	Vivekananda Global University, Jaipur
6	301	Gaurang Sharma, Dr. Bhanu Pratap	Generative AI Models	Poornima Institute of Engineering and Technology, Jaipur
7	294	Rohini Mittal, Mukesh Rawat	Detection of Multilingual Communal Tweets through Sentiment Analysis Using Hybrid Algorithms	Meerut Institute of Engineering and Technology, Meerut, UP
8	67	Jessica Sarah Solomon , Dr. Suresh Kaswan, Anshuman Sharma, Anjali Sharma	A Multi-Modal Deep Learning Framework for Early Detection of Mental Health Disorders Using Text, Voice, and Physiological Signals	Chandigarh University Punjab
9	133	Dr. Anil Kumar Dubey, Asif Akhtar, Gulshan Kumar, Kumari Shalini	Design of Wideband High Gain E Shaped Patch Antenna Array with Circular DGS for 6G Applications	Greater Noida Institute of Technology (Engg. Institute), Greater Noida, UP

Day 1: Technical Session-2, Date: 16 May, 2025, Timing: 12:00 Noon – 01:30 PM

(Online) : meet.google.com/zcc-msvj-mar

Theme :- Advanced Algorithms and Machine Learning

Session Chair :- Dr. Nitesh Pradhan
Assistant Professor , Department of Computer Science Engineering, LNMIIT, Jaipur

Session Co-Chair :- Dr. Prince Dawar, Associate Professor, PIET, Jaipur

S.No	Paper Id	Author Name	Paper Title	Institute
1	192	Blessing Michael Muzira, Pulkit Jain, Gurmeet Singh	Joint Angle Analysis and Machine Learning Classification for a Data Driven Success Prediction in Pick and Place Robots.	Chandigarh University, Mohali
2	195	Anurag Kumar Srivastava, Dr. Ashish Sharma	Edge-Optimized Face Recognition: A Hybrid Machine Learning Approach Using Raspberry Pi and Azure	Greater Noida Institute of Technology, Greater Noida
3	204	Dattatray Kshirsagar, Prof. Pramod Kanjalkar, Prof. Dr. Jyoti Kanjalkar, Payal Kudale, Manasi Mhatre, Devraj Lokhande	Harnessing Machine Learning for Predictive Maintenance in Solar Energy Systems	Vishwakarma Institute of Technology, Pune
4	230	Ayush Singhal, Anurag Srivastava	Deep Learning for Skin Lesion Classification: A CNN Model with Real-Time Web Deployment	Chandigarh University Mohali, Punjab
5	243	Gargi Bhardwaj, Tarushi, Abhiruchi Sarawat, Sankalp Sarawat, Poonam Bansal, Harshita	Forecasting and Estimation of Diabetes (Chronic Disease) by utilizing Machine Learning Systems	Indira Gandhi Delhi Technical University for Women, New Delhi
6	281	Subham Dhouni, Anshu Mehta, Paurav Goel	Flood Forecasting in the Age of AI: A Review of Machine Learning-Based Approaches	Chandigarh University, Gharuan, Punjab
7	147	Aarju Chaudhary, Vijay Kumar Sharma, Vikas Srivastava	Enhanced Prediction of Thyroid Disease and treatment trends using Hybrid Machine learning framework	Meerut Institute of Engineering and Technology, Meerut , UP
8	234	Shwetha A N	Real Time Speech based Emotion Detection System using Machine Learning	Siddaganga Institute of Technology, Tumakuru

Day 2: Technical Session- 3, Date:- 17 May, 2025, Timing: 09:00 AM –10:30 AM

(Online) : meet.google.com/jcr-dwiv-vyq

Theme :- Transformative Power of Artificial Intelligence

Session Chair :- Dr. Kapil Gupta
Assistant Professor, Computer Applications, National Institute of Technology, Kurukshetra

Session Co-Chair:- Dr. Ashish Laddha, Associate Professor, PIET, Jaipur

S.No	Paper Id	Author Name	Paper Title	Institute
1	97	Dr. Mohanaprakash T A, Prof. Kaushika.S , Charulatha M, Monisha J, Ankitha K J, P Rickshi Femina	NammaTour : An AI Powered Tourism Planner with Crowd Prediction	CMR University Bengaluru
2	118	Pooja Mishra, Shivam Chaugule, Prasad Ware, Mrunali Kale, Yogesh Patil	AI-Powered Evaluation of Student Collaboration in Projects	Dr. DY Patil of Institute Engineering, Management and Research, Akurdi, Pune
3	152	Dr. Premkumar R, Eashwar Sivakumar Hannah Jessie Rani Jeyaprakash Kadambarajan	Advances in Secure Random Number Generation: A Comprehensive Overview of Techniques and Challenges	Jain University, Bangalore, Karnataka
4	54	Lavanya M , Dr. Seshaiah Merikapudi	Network Intrusion Detection Method based on CNN-BiLSTM Attention Model	S.J.C. Institute of Technology, Chikkaballapura
5	190	Divakar sharma, Abhinay Goswami, Jay Kishor Thakur, Dr. Sanjay Kumar	A Refined Review of Feature Extraction Techniques in Image Processing	Galgotia College Of Engineering and Technology, Greater Noida
6	202	Dr. Komal Saxena, Saikat paramanik	Ensemble Learning For Realtime Malware Detection	AIIT, Amity Univrsity , Noida, UP
7	290	Shanaaya Mittal, Palak Aggarwal, Apeksha Singh, Dr. Shailesh Kamble	Artificial Intelligence based Detection and Classification of Polycystic Ovary Syndrome and Uterine Fibroids	Indira Gandhi Delhi Technical University for Women (IGDTUW), New Delhi
8	293	Nainsi Jain, Rambir Singh, Vijay Kumar Sharma	Detection of Crime Against Women with CNN-LSTM Framework using YOLOv8	Meerut Institute of Engineering and Technology Meerut, UP

Day 2: Technical Session- 4, Date: 17 May, 2025, Timing: 11:00 AM –12:30 PM

(Online) : meet.google.com/vas-ourv-gup

Theme :- Computing Technologies

Session Chair :- Dr. Jyoti Grover

Assistant Professor, Computer Science & Engineering Department, Malaviya National Institute of Tech., Jaipur

Co-Chair :- Dr. Mahak Bhatia, Associate Professor, PIET, Jaipur

S.No	Paper Id	Author Name	Paper Title	Institute
1	219	Aditya Singh, Vineet Singh	Adaptive Educational Game Design Using Deep Reinforcement Learning for Personalized Difficulty Scaling	Amity University, Lucknow, UP
2	241	Navonita Mallick, Shashwata Sahu, Dr. Hiranmaya Nanda	Developing Child-Safe Recommender Systems: A Legal-Tech Framework for Algorithmic Responsibility on Educational Platforms	KIIT SCHOOL OF LAW, Campus 16, KIIT-DU, Patia, Bhubaneswar, Odisha
3	279	Sakshi Thakur, Ranjan Walia, Ruchika Gupta	Optimization Algorithms for Enhancing Accuracy in Brain Tumor Detection	Chandigarh University, Gharuan, Punjab
4	291	Aarju Chaudhary, Vijay Kumar Sharma, Vikas Srivastava	Diagnosis of Thyroid Disorders using traditional and Ensemble Methods	Meerut Institute of Engineering and Technology, Meerut, UP
5	81	Mr. Ashok Gowda C R, Mr. Ajay N, Dr. Mohan H S, Dr. Shrihari M R, Mrs. Shwetha B V	Enhanced Access Management and Automatic Revocation for Outsourced EHR in Cloud Environment	SJC Institute of Technology Chickballapur
6	107	Reshma, Dr. Suresh Kaswan, Rabina, Parul Goyal, Pardeep Kaur, Parveen Kumar	Motion Writing: Turning Hand Gestures into Text with Mediapipe, OpenCV, and CNN in Real Time	Chandigarh University Mohali, UP
7	135	Pullagoila Kamalakar, Palachuru Prakash, Bantrothu Kaveri, Bovilla Krishna Reddy	Advanced Underwater Image Restoration By Using CYCLEGAN	Madanapalle Institute of Technology & Science, Madanapalle, Andhra Pradesh
8	295	Surbhi Jain, Vijay Kumar Sharma Ruchika Mehta, Meetu Nag	Workflow Scheduling in Clod Based on Hybrid Particle Swarn Optimization: A multi-Objective Approach	SRM Institute of Science & Technology, Ghaziabad, UP

Day 2: Technical Session- 5, Date: 17 May, 2025, Timing: 01:00 PM –03:00 PM

(Online) : meet.google.com/ykg-ooot-hgp

Theme :- Advancements in IoT & Electronic Devices

Session Chair:- Dr. Suresh Kaswan

Professor, Department of Computer Science Engineering, Chandigarh University, Punjab

Co-Chair :- Dr. Nitin Mukesh Mathur, Associate Professor, PIET, Jaipur

S.No	Paper Id	Author Name	Paper Title	Institute
1	140	Juturu Chinna Narmada, P. Prakash, A. Poojitha, C. Neha	Novel LFSR-Based Counter Architecture With Reversible Logic Gate Integration	Madanapalle Institute of Technology & Science, Madanapalle, Andhra Pradesh
2	183	Manjushri Joshi, Harjot Singh Dhaliwal, Burhanuddin Chunawala Aditya Amol Kesari, Arya Borgaonkar	Stepping into Sustainability: Energy Generation through Piezoelectric Floor Tiles	Dr. Vishwanath Karad MIT World Peace University, Pune, Maharashtra
3	206	Blessing Michael Muzira, Dr. Pulkit Jain, Dr. Gurmeet Singh	Benchmarking Accuracy and Efficiency of ML Based Robotic Manipulators	Chandigarh University, Punjab
4	211	Mehtab Singh, Gurmeet Singh, Harjot Singh Gill	Sensor-Driven Adaptive Grasping in ROS2: Real Time Force Optimization for Delicate Object Manipulation	Chandigarh University, Mohali, Jaipur
5	267	Kannappan. A, S. Mahaboobbasha, Vinoth.T , A. Kalaivani	Energy Effectiveness Metrics in Underwater Acoustic Sensor Communication using Several Bio-Inspired Behavioural Algorithms	Saveetha School of Engineering, SIMATS, Chennai
6	273	Shashwata Sahu, Dr. Sanghamitra Patnaik, Dr. Parthasarathi Pattnayak, Shaina S. Das, Arpeeta Mohanty, Tulip Das	Securing Medical IoT Data: A Blockchain-Integrated Cloud Model for Privacy-Preserving Health Analytics	KIIT SCHOOL OF LAW, Campus 16, KIIT-DU, Patia, Bhubaneswar, Odisha
7	292	Pragya Jain, Rambir Singh, Suman Dutta, Vivek Kumar	Energy Demand Forecasting for EV Charging Stations using Hybrid Algorithm	Meerut Institute of Engineering and Technology, Meerut, UP
8	296	Shriya Parihar, Meetu Nag Ruchika Mehta	Advancements in VLSI technology for Adaptive, High-Speed Systems: A Review	Manipal University Jaipur, Jaipur