

Recent Trends in Advanced Computing (ICRTAC '23)

School of Computer Science and Engineering

in Collaboration with

VIT Business School

Supported by International Relations Division of VIT
Theme: Cutting Edge Technologies in Computing-SDG

Paper Presentation - Session 1 – Track 1

Date: 14th December 2023

Time: 02.15 PM – 04.30 PM

Venue: Admin Block 5th Floor

Mode: Offline

Session Chairs:

1. Dr. M. Jayasudha, Associate Professor, School of Computer Science and Engineering, Vellore Institute of Technology, Chennai
2. Dr. Shola Usha Rani, Associate Professor, School of Computer Science and Engineering, Vellore Institute of Technology, Chennai

S.No	Paper ID	Title	Affiliation	Authors
1	316	Enhancing Text-to-Image Model Evaluation: SVCS and UCICM	Vellore Institute of Technology, Chennai	Gabriel Joshua R, Khadar Nawas K, Varsini SR
2	134	An automated effective communication system in a VR based environment for hearing impaired	Vellore Institute of Technology, Chennai	Sai Tharun V, Arunachalam V, Sai Teja Bandaru, Dr. Maheswari N
3	165	Predicting and Evaluating Train Occupancy in Belgium using Weather Data by developing Ensemble Stacking Classifier	Vellore Institute of Technology, Chennai	A Sheik Abdullah, P.Je Sai Kailash, Deepthi Ramesh, Aravind Shankar R
4	261	A Comprehensive Review on Detection of Dacrocytes from Blood Smear Images using ML Algorithms	Easwari Engineering College, Chennai	D.Kavitha, B. Padmavathi, Shakthi Priya S, Sanjana N, Sidesh S
5	449	AI Powered Medical Chatbot in Vernacular Languages	Vellore Institute of Technology, Chennai	Dr. Rabindra Kumar Singh, Dr. B V A N S S Prabhakar Rao, Dr. Sivabalakrishnan M
6	221	Artificial Intelligence based eLearning Model to Increase Student Engagement	Vellore Institute of Technology, Chennai	Aarthi Dhandapani, Ilakiyaselvan N, Appalaraju Muralidhar, Vaibhav Khati
7	443	Real Estate Market in the Digital Age: A Review of Technology Trends and Advancements	Vellore Institute of Technology, Chennai	Shivani Jain, Dr. P Anandan
8	347	A Dual Approach to Image and Video Inpainting using 3D-Edge-Curvelet Transform and CEGAN Architecture	Vellore Institute of Technology, Chennai	Saimirra R, Ankith Motha, Manik Suthar, Ezekiel Jebaraj Solomon, Vedhapriyavadhana R

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Paper Presentation - Session 1 – Track 2

Date: **14th December 2023**

Time: **02.15 PM – 04.30 PM**

Venue: **Admin Block 5th Floor**

Mode: **Offline**

Session Chairs:

1. Dr. Srinivasa Perumal R, Associate Professor Grade 2, School of Computer Science and Engineering, Vellore Institute of Technology, Chennai
2. Dr. Soma Prathibha, Associate Professor, Department of Information Technology, Sri Sairam Engineering College.

S.No	Paper ID	Title	Affiliation	Authors
1	199	Decision Support System For Early Prediction Of Sepsis	Vellore Institute of Technology, Chennai	Sanjana Godiawala, Safiya Parvin A, Saleena B, Prakash B
2	310	Polyp Segmentation using Unet and Enet	Vellore Institute of Technology, Chennai & Virtusa, USA	Pratik V, Dr. Vedhapriyavadhana R, Senthilnathan Chidambaranathan
3	367	Machine Learning for Myocardial Infarction complication: A Metrics-Based Investigation of Different Models	Vellore Institute of Technology, Chennai	Shashaank V, Sriram R, Dr. Thomas Abraham JV
4	452	A Framework to Boost Team Effectiveness through AI based Personality and Skill Based Assessment	Vellore Institute of Technology, Chennai	Suganya G, Varun Kamath, Manigandan Ramadasan, Prasham Titiya, Ronit Naik, Rishi Nair
5	434	Analysis of Traditional and Deep Learning Architectures in NLP: Towards Optimal Solutions	Vellore Institute of Technology, Chennai & Pennsylvania State University, Pennsylvania, USA	Subbulakshmi T, Prathiba Lakshmi Narayan, Shreejith Suthraye, Gokulnath, R.Suganya, Girish H. Subramanian
6	401	Real-time CCTV Footage Violence Detection using Deep Learning	Vellore Institute of Technology, Chennai	Rohan Pawar, Hardik Kathuria, Rateneshwar, Ibrahim Ahmed Siddiqui, Nivedita M.
7	40	Alcohol Detection, Facial Recognition and Gesture Enabled Multimedia Control System	Vellore Institute of Technology, Chennai	Ravikiran V, Swetha Venugopal, V A Monica, Vanisha S, Dr.Rajkumar Murugesan
8	54	Analysis of Crimes Against Children in India Using Machine Learning Models	Vellore Institute of Technology, Chennai	Triparna Kundu, Jaynel Shifa V, Saleena B, Prakash B
9	413	Machine Learning Models for PCB Defect Detection: A Survey	Vellore Institute of Technology, Chennai	Vishwath Ramachandran*; Philip Anand; Rohit Madhavan Sudharsan; Revathi M; Girish Subramanian; Subbulakshmi T

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Paper Presentation - Session 1 – Track 1

Date: **15th December 2023**

Time: **10.00AM – 12.30 PM (Tea Break: 11.00AM-11.30AM)**

Venue: **Admin Block 5th Floor** Mode: **Offline**

Session Chairs:

1. Dr. C.Priya, Dr. MGR Educational and Research Institute
2. Dr. Radha R, Associate Professor, School of Computer Science and Engineering, Vellore Institute of Technology, Chennai

S.No	Paper ID	Title	Affiliation	Authors
1	107	Multi-Modal Deep Learning for Leaf Disease Detection: Integrating Visual and Non-Visual DataSources	Vellore Institute of Technology, Chennai	Sreenidhi R, Dr. A. Ilavendhan
2	241	Enhancing the Accuracy in Classifying Rice Seed Varieties using Novel Random Forest Algorithm Compared with Support Vector Machine	Saveetha School of Engineering, Saveetha Institute of Medical and Technical Sciences, Chennai,	M. Sandhiya, Dr. S. Christy
3	341	Self-Organized Genetic Algorithm for Enhanced Data Clustering	Madanapalle Institute of Technology & Science Andhra Pradesh,	Dinesh Karunanidhy, Vyshnavi V, M Sai Soumya Reddy, Aravind Balakrishnan, Abdul Jaleel D, M. Sreedevi
4	374	Cloudburst Prediction in India Using Machine Learning	Madanapalle Institute of Technology & Science Andhra Pradesh,	Dinesh Karunanidhy, P Sai Rakshith, G Sireesha, Nandhini M, MageshKumar N, M. Sreedevi
5	17	ChatGPT and its Double-Edged Impact on Higher Education and Research- A Detailed Survey	Rajalakshmi Engineering College, Chennai	M. Jagadeesh, Aneesh Saikrishna P, Aadil Syed Ali, Athish BS
6	246	A Novel Fleet Management System in Underground Coal Mines using Internet of Things	Vaagdevi engineering College, Bollikunta, Warangal	Mounika Kanukuntla, Srikanth Jannu and Chaitanya Thuppari
7	272	An Energy and Coverage-aware Optimal Routing Algorithm for Mobile Sink to Maximize Network Lifetime for Wireless Sensor Networks	Vaagdevi engineering College, Bollikunta, Warangal	Sathwik Gaje, Srikanth Jannu and Chaitanya Thuppari
8	454	Performance Comparison of Multicore Architectures	Vellore Institute of Technology, Chennai	Rohith S Selvan*; Miruthula SK; Shreyas K; Vaidehi Vijayakumar

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Date: 15th December 2023

Time: 10.00 AM – 12.30 PM (Tea Break: 11.00AM-11.30AM)

Venue: Admin Block 5th Floor

Mode: Offline

Session Chairs:

1. Dr. K. Dinesh, Associate Professor, Department of Computer Science and Technology, Madanapalle Institute of Technology and Science, Andhra Pradesh
2. Dr. G. Anusooya, Associate Professor, School of Computer Science and Engineering, Vellore Institute of Technology, Chennai

S.No	Paper ID	Title	Affiliation	Authors
1	285	Data Stream Classification Framework for Data Streams using Dynamic Ensemble Selection	SRM Institute of Science and Technology, Kattankulathur	Priya.S, Dorathi Jayaseeli D, Subham Biswajit
2	45	Assisting the Paralyzed Person using MessageAutomation Technique	Rajalakshmi Engineering College, Chennai	Anantha Sivaprakasam S, Sudharsan S, Naganathan E.R
3	178	SHOPSPHERE – Recommendation system to develop a warehouse with personalized troupe of products	Sri Krishna College of Engineering and Technology, Coimbatore	Ignisha Rajathi G, Prakalya B S, Nitin Sailesh V, Sanchana M, Anbu Gandhi P
4	436	Analyzing the Evolution of DDoS Attack Detection: Traditional vs. Modern Machine Learning Models	Vellore Institute of Technology, Chennai	V Premanand, Shreejith Suthraye Gokulnath, Shrikar Jayaraman, Santhanakrishnan Bhaskar
5	176	KENKO - an AI system to hold health records and assist individuals across cross domains	Sri Krishna College of Engineering and Technology, Coimbatore	Ignisha Rajathi G, Sneharajalakshmi P, Midhun Kumar V N, Vikash Kumar S
6	299	Methane Gas Prediction Model in Underground Coalmines: A Deep Learning Approach	Vaagdevi engineering College, Bollikunta, Warangal	Tharun Satla, Srikanth Jannu, Chaitanya Thuppari and Naveen Kumar Rangaraju
7	335	Aviation Safe Landing Prediction Utilizing Long-Short Term Memory Algorithm	Vellore Institute of Technology, Chennai Campus	Mr.Raji Krishna, Mr.Tulasi Prasad Sariki, Siri Mahalakshmi Sigamsetty, Mr.G.Bharadwaja Kumar and Mr.Benil T
8	336	Shape Organization for Enhanced Design Optimization in Generative Systems Using Clustering Technology	Vellore Institute of Technology, Chennai Campus	Mr.Raji Krishna, Mrs.R.Suganya, Ms.Mounika Sai Yaganti and Mr.Seyed Mohamed Buhari
9	457	Comparative Analysis of Firmware Security: A Proactive Paradigm for Enhancing Efficiency and Adaptability through Anomaly Detection	Vellore Institute of Technology, Chennai Campus	Sanjay J1 , Amrutha E2 , Neha Ramesh3 , Vaidehi Vijayakumar4 (Senior Member IEEE)