



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

DATE:15.12.2023

SESSION NUMBER	SESSION TIMING	NO. OF TRACKS	NO. OF PAPERS
1	10.00 AM - 11.00 AM	3	15
2	11.30 AM – 12.30 AM	4	24

SESSION NUMBER	SESSION TIMING	AREA OF SPECIALIZATION
1	10.00 AM -11.00 AM	App Development and machine Learning App Development and machine Learning
		Machine Learning and Deep Learning
2	11.30 AM – 12.30 PM	Machine Learning and Deep Learning

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Paper Presentation - Session 1

Date: 15th December 2023
Time: 10.00 AM – 11.00 AM
Mode: Online

Track 1: App Development and machine Learning

Session Chairs:

1. Dr. Braveen M, Associate Professor, VIT Chennai
2. Dr. Christy Jackson J, Associate Professor, VIT Chennai

Mode: **Online**

Join Zoom Meeting : <https://zoom.us/j/93956075367?pwd=bXhpcU9BZjB3bHNXUit4MGNBNHo4UT09>

S.No	Paper ID	Title	Affiliation	Authors
1	240	Enhancing Online Education Efficacy: A Multifaceted Analysis and Recommendation System for Online Courses	Vellore Institute of Technology, Chennai, India	Mr Narendra G O, V V Vaishnavi, Ms.Divyashree S and Mr.Christy Jackson J
2	282	Automated Rice Panicle Blast Disease Severity Classification Using Hybrid CNN-LSTM Model	Chitkara University Institute of Engineering and Technology, Chitkara University, Punjab	Mr Rishabh Sharma, Mr.Vinay Kukreja and Mr.Vikrant Sharma
3	377	Smart Irrigation: Revolutionizing Water Management in Agriculture for Sustainable Practices and Improved Crop Yield	Sathyabama Institute of Science and Technology	Mr Sathiyaraj A, Dr. Ramkumar Devendiran, Mr.Anil V. Turukmane, Dr. P. Srinivasa Rao, Mr.BBK Prasad and Dr. Sreedhar Pulipati
4	118	TNU-Net: Water Body Segmentation based on the Transformer Network with U-Net Model	MLRIT	Mr Nagarjuna Tandra, Ms.S Jyothirmaye and Ms.Sivaramakrishna Yechuri
5	410	The development of a self-help respiratory ailment mobile application	MPSTME University NMIMS	Mr Varad Gandhi, Mr.Osama Dalwai, Mr.Rohit Bhatia and Prof. Dhanashree Huddedar

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Date: 15th December 2023
Time: 10.00 AM – 11.00 AM
Mode: Online

Track 2: IOT, Machine and Deep Learning

Session Chairs:

- 1.Dr. Jayanthi R, Associate Professor, VIT Chennai
- 2.Dr. Manas Ranjan Prusty, Assistant professor, VIT Chennai

Mode: **Online**

Join Zoom Meeting : <https://zoom.us/j/93956075367?pwd=bXhpcU9BZjB3bHNXUit4MGNBNHo4UT09>

S.No	Paper ID	Title	Affiliation	Authors
1	183	Development of a Mobile App to Detect Counterfeit Currency using Machine Learning	Shri Ramdeobaba College of Engineering and Management	Dr Rakesh Kadu, Preneet Gupta, Mr.Pranay Jain and Mr.Saurabh Nakade
2	207	A Novel Approach to Predicting IPL Player Value and Score Using XGBoost and Ridge Regression	KGiSL Institute of Technology	Ms.Sakthimohan Ms.,Elizabeth Rani Ms.G,Amuthaguka Ms.D,Jayanthi Ms.M,Jayanthi Ms.M,Karthigadevi Ms.K,Sanjeevi Kumar. V
3	318	Course recommendation system using python and streamlit	St.Joseph's college of engineering	Mr Sai Sharvesh Ramesh, Mr.Suresh Kumar K, Mr.D Dinesh kumar and Sabthagiri P
4	439	A smart and systematic ration grocery and liquid materials vending machine using internet of things	Saveetha Engineering College	Mr Shaik Farooqh Ali, Mr.Shaik Imran and Dr.Nirmala Devi K
5	201	A Quantifiable Detection of voids/Pores and Cracks in Scanning Electron Microscopic images using Machine Learning Techniques	KGiSL Institute of Technology	Ms Devadharshni M, Ms.Sornalakshmi M, Ms.Elizabeth Rani G, SMr.akthimohan M, Ms.Karthiga Devi K and Mr.Ponsuresh M



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Date: **15th December 2023**
Time: **10.00 AM – 11.00 AM**
Mode: Online

Track 3: Machine Learning and Security

Session Chairs:

1. Dr. Sathiyamurthy, Professor, Pondicherry Technological, Puducherry
2. Dr. Appalaraju Muralidhar, Associate Professor, Vellore Institute of Technology, Chennai.

Mode: **Online**

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S.No	Paper ID	Title	Affiliation	Authors
1	314	Recent Trends in Human Breathing Detections using Radar, WiFi and Acoustics	Delhi Technological University	Mr. Ravi Kant Singh and Mr.Rahul Katarya
2	277	Intelligent Housing System with Cryptographically Secure Ownership and Dynamic Price Bidding	SRM Institute of Science and Technology	Mr. Ujjwal , Mr. Prayash Gupta and Mr.J. Selvin Paul Peter
3	159	Deep Learning-Enabled Intensity Level Classification of Corn Rust Disease	Chitkara University Institute of Engineering and Technology, Chitkara University, Punjab, India	Mr. Rishabh Sharma, Mr.Arshleen Kaur, Mr.Vinay Kukreja, Ms.Lisa Gopal and Mr.Garima Verma
4	147	Survey On Image Compression Algorithms And Their Efficiencies Under Different Types Of Files	Pondicherry University Research scholar	Nithya P ,M. Sathya,T. Vengattaraman
5	239	Sentiment clustering using the unsupervised machine learning approach	KIIT Deemed to be University, Bhubaneswar, India	Dr. Abinash Tripathy, Mr.Utpal Chandra De, Mr.Bibhuti Bhusan Dash, Mr.Sudhansu Shekhar Patra, Mr.Binod Kumar Pattanayak and Mr.Trilok Nath Pandey

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Paper Presentation - Session 2

Date: **15th December 2023**
Time: **11.30 AM – 12.30 PM**
Mode: Online

Track 1: Machine Learning and Deep Learning

Session Chairs:

1. Dr. K P Vijayakumar, Assistant Professor, VIT Chennai
2. Dr. Balasundaram A, Assistant Professor, VIT Chennai

Mode: OnlineJoin Zoom Meeting : <https://zoom.us/j/93956075367?pwd=bXhpcU9BZjB3bHNXUit4MGNBNHo4UT09>

S.No	Paper ID	Title	Affiliation	Authors
1	356	The Interplay of Median Income and Financial Literacy: A Deep Dive into Socio-Economic Implications and Predictive Modeling	Saint Peter's University	Dr.Sharath Kumar Jagannathan and Mr.Gulhan Bizel
2	404	Application Layer Denial of Service Attack Mitigation by Traffic Queuing	VIT Chennai	Dr. Renukadevi Saravanan and Ms.Harshit Maheswari
3	344	Design Of Dc-Dc Buck Converter For Battery Charging Application Using Neural Network Based Cc And Cv Method	Rajalakshmi Engineering College	Ms Amutha C, Ms.R.Srimathi, Ms.V.Varshini, Mr.D.Sreenath Rao and Dr.M.G.Umamaheswari
4	335	Aviation Safe Landing Prediction Utilizing Long-Short Term Memory Algorithm	Vellore Institute of Technology, Chennai Campus	Mr.Raji Krishna, Mr.Tulasi Prasad Sariki inSiri Mahalakshmi Sigamsetty, Mr.G.Bharadwaja Kumar and Mr.Benil T
5	336	Shape Organization for Enhanced Design Optimization in Generative Systems Using Clustering Technology	Vellore Institute of Technology, Chennai Campus	Mr.Raji Krishna, MrR.Suganya, Ms.Mounika Sai Yaganti and Mr.Seyed Mohamed Buhari
6	55	Innovative Approaches in Tomato Leaf Disease Recognition using Deep Learning	VIT-AP University, Amravati, Andhra Pradesh-522237	Dr.Radha Mohan Pattanayak

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Paper Presentation - Session 2

Date: 15th December 2023

Track 2: Machine Learning and Deep Learning

Time: 11.30 AM – 12.30 PM

Mode: Online

Session Chairs:

1. Dr Rajesh M ,Associate professor ,VIT Chennai.
2. Dr Manas Ranjan prusty, Associate Professor, VIT Chennai.

Mode: **Online**

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S.No	Paper ID	Title	Affiliation	Authors
1	394	Optimizing Metro Station Placement in Urban Planning Using Quantum Annealing	SRM Institute of Science and Technology	Ms.Jigyasa Sharma, Mr.Sarthak Singh,Ms.M.Gayathri, Ms.M.Pushpalatha, Ms.Thilagavathy R and Mr.Sangram Deshpande
2	266	DCTCADM: Data-Centric Cognitive Agent Decision Making Based an Effective Handoff for Heterogeneous Wireless Communication	Alliance University	Mr.S.Muthulingam Mr.V. Pandiyaraju,Ms. K Malar,Mr.U.Samson Ebenezar,Mr. N Manjunathan & Mr.Goutham Elumalai
3	270	Deep Learning-Aided COVID-19 Detection from Chest X-Ray Images	Sathyabama Institute of Science and Technology	Ms.K.Ishwarya and Ms.C.Sai Varun
4	409	Enhancing Agile Development in Tech Companies: Backlog Management, Tool Integration, and Stakeholder Collaboration	Vellore Institute of Technology, Chennai	Dr.R. Suganya
5	455	Enhancing Deep Learning Performance Through Parallel Processing: A Comprehensive Research Study	Vellore Institute of Technology, Chennai	Mr.Rudraditya Thakur, Mr.Naman Goel, Mr.Bhavesh, Dr.Vaidehi Vijaykumar
6	444	Bike Sharing: An In-Depth Analysis on the Citi Bike Sharing System of Jersey City, NJ	Saint Peter's University	Mr.Vijay Kumar Reddy Voddi

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Date: 15th December 2023
Time: 11.30 AM – 12.30 PM
Mode: Online

Track 3: Machine Learning and Deep Learning

Session Chairs:

1. Senthilnathan Chidambaranathan / Associate Director / Virtusa / USA
2. Dr. Jaisakthi, Professor, Vellore Institute of Technology, Chennai

Mode: **Online**

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S.No	Paper ID	Title	Affiliation	Authors
1	47	CNN based Human Intention-Behavior Prediction using Common Average Reference and STFT of EEG Signals	VIT-AP University	Mr.Kondagurava Reddy Atla and Mr.Rajeev Sharma
2	126	Detection of Dental Caries Using NIR Images	Avinashilingam Institute for Home Science and Higher Education for Women	Ms.Nivethalakshmi S and Dr. Judith Justin
3	458	Adaptive Traffic Signal Control System For Emergency Vehicle Prioritization using IOT	Vellore Institute of Technology- Chennai Chennai, India	Mr.Menati Vasudeva Reddy And Dr.k. Sathyarajasekaran.
4	267	A Comparative Study on Paddy Disease Classification Using Machine Learning	Vellore Institute of Technology, Chennai	Dr.Ilakiyaselvan N, Aarthi Dhandapaniy, Thomas Abraham J V, Sathyarajasekaran K and Sherwin S
5	363	Air Sense: Empowering Air Quality Prediction through Machine Learning Algorithms	Kongu Engineering College	Ms.Maragatham T, mr.Chandru Vignesh C, Mr.Sathya S And Mr.Yokesh R
6	337	Financial Portfolio Optimization: A QAOA and VQE Formulation for Sharpe Ratio Maximization	SRM institute of science and technology	Naman Kaushik,Aryan Raj,Milind Srivastava,Md Sajidullah Ansari,M.Pushpalatha,M.Gayathri ,L.Kavisankar,Sangram Deshpande,Raghavendra Venkatraman

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Paper Presentation - Session 2

Date: 15th December 2023

Track 4: Machine Learning and Deep Learning

Time: 11.30 AM – 12.30 PM

Mode: Online

Session Chairs:

1. Dr.Sajitha S A ,Associate professor,VIT Chennai
2. Dr. Leninisha S ,Associate professor,VIT Chennai

Mode: **Online**

Join Zoom Meeting : <https://zoom.us/j/93956075367?pwd=bXhpcU9BZjB3bHNXUit4MGNBNHo4UT09>

S.No	Paper ID	Title	Affiliation	Authors
1	186	PaF & MbOTS: Novel Task Scheduling Strategies for Fog Computing Environment	Chandigarh University, Punjab, India	Mr.Navjeet Kaur and Mr.Ayush Mittal
2	6	Comparative Analysis of Machine Learning Algorithms on Prediction of Alzheimer from MRI	Rajalakshmi Engineering College	Ms Indhumathi G Dr. Palanivelan M Dr. Senthilkumar K and Mfr.Sairam V A
3	84	ATNSCUNet:Adaptive Transformer Network based Sub-Convolutional U-Net for Single channel Speech Enhancement	VIT-AP University	Mr.Sivaramakrishna Yechuri and Mr.Sunnydayal Vanambathina
4	420	Quantum Enhanced Support Vector Machine with Instantaneous Quantum Polynomial Encoding for Improved Cyclone Classification	Vellore Institute of Technology Chennai	Ms.Sridevi S, Indira B, ms.Shivanya Shomir Dutta, Mr.Sahil Sandeep and Ms.Aishwarya Sreenivasan
5.	223	An Effective Cervical Cancer Detection Approaches - A Comparative Analysis	Faculty of Information and Communication Engineering, Anna University, Chennai – 600025, India. Research scholar	Ms.S. Maheswari,C. Mr.N. Marimuthu,B. Ms.Deepa,S. Ms.Geetha
6.	453	Performance Analysis of Multicore Architectures	Student, Scope, VIT Chennai	Ishaan Sharma , Protyush Saha, Dr.Vaidehi Vijayakumar