



**First International Conference on Data Engineering
and Machine Intelligence 2023
ICDEMI – 2023**

November 22nd-24th, 2023

**Organized by
Department of Computer Science and Engineering
GITAM University, Bengaluru, India
(Hybrid Mode)**

Conference Schedule

**Zoom Link: <https://gitam.zoom.us/j/99651022917>
(For Online Participants)**

DAY-1(22ndNovember2023)

Time(IST)09:00 AMto90:50AM	Registration Venue:SB-501
InauguralFunction Venue: SB 501	
10:00AMto 11:15AM	WelcomeAddress : Prof. A. Vadival, GITAM, Bengaluru Felicitation Address : Prof. Vamsidhar Y, HoD, Dept. of CSE, GITAM, Bengaluru Address by Director : Prof. Basavaraj G K, Director GST, GITAM,Bengaluru Address by Chief Guest : Prof. K.N.S.Acharya, Pro Vice Chancellor, GITAM, Bengaluru Vote of Thanks : Prof. K. Meena, GITAM, Bengaluru

11:15AMto 11:30AM	HIGH TEA BREAK
KeynoteSession Moderator:Mrs.Archana S Nadhan	
Time (IST)	NameofSpeakers&Title
11:30AMto 12:45 PM	Keynote Talk 1 TitleoftheTalk:“An overview of ReRAM-based In-memory computing” Prof.T.Nandha Kumar CEng(UK), Senior Member IEEE, Fellow HEA(UK), MIET Professor of Electronic & Head of the Department Dept. of Electrical and Electronic Engineering University of Nottingham Malaysia Jalan Broga, Semenyih, 43500 Selangor, Malaysia Email: nandhakumaar.t@nottingham.edu.my

12:45 PM to 01:45 PM	LUNCH BREAK		
PaperPresentationSession1(Hybrid) (10minsforeachpresentationincludingQ&A) Venue:SB-529 SessionChair:Prof. Mohan Govindas aKabadi, Prof. I Jeena Jacob			
02:00 PM to 04:30 PM	Paper ID	TitleofPapers	
	33	Autonomous System of Heavy Vehicle Using CAN Networking	
	57	Real-Time Enhancement of RFID System Identification Range via Mifare Classic Tag Configuration	
	87	Remote Sensing Image Captioning (RSIC): A Technical Review	
	98	Secure Storage of Documents using Decentralized Systems	
	46	Self-Hosted Cloud Casting the Cloud Offline: Empowering Data Sharing in Internet-Free Zones	
	102	Improved Shortest Job First (ISJF) Algorithm for Optimizing task scheduling in a cloud environment	
	103	Optimizing Crop Yield Prediction: A Comprehensive Study on Machine Learning Algorithms and Feature Selection	
	Online Track (SessionChairProf. K. Meena, Dr. N. Gayathri)		
	65	Noise Removal Technique for Restoration of Medical Images.	
48	Weapon Detection in motion video and Threat Alerting System Using Deep Learning And AI		
97	Exploring Multi-modal and Emotion Mining: A Comprehensive Survey		
6	Dementia Disorder Analysis using Optimized Deep ResiNet Based on Cognitive Approach		

	37	Analyzing Urban Air Pollution Using Dimensionality Reduction
	51	Deep Learning for Sentiment Analysis in Social Media: Current Challenges and Future Avenues
	125	Leveraging Mathematical Modelling of Dengue fever Odyssey R with Data Science

DAY-2(23rd November2023)

10:00AMto 11:00AM

Name of Speaker &Title

Keynote Talk 2 : Prof. Asai Asaithambi
Professor & Graduate Director, School of Computing, University of North Florida Jacksonville, Florida
TitleoftheTalk: "Bio-Inspired Artificial Intelligence"

11:00AMto 11:15AM

TEA BREAK

PaperPresentationSession2(Online)
(10 mins for each presentation including Q&A)

SessionChair:Prof.Naganathan RengasariEalai , Prof.JustinVarghese

11:15 AM to 12.45 PM

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Visualization of data for prediction of features for human eye complications in machine learning framework

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Stem Cell Segmentation using Deep Learning Techniques

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Cardiovascular Disease Detection Using Intelligent Systems: A Cursory Survey

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An Anti-Churn Model for Real-Time Business

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Image Classifier using resource-constrained device and Tiny Machine Learning

34

Unveiling Energy Depletion Attacks in Wireless Sensor Network and Defensive Mechanisms

118

Integrating Grey Wolf Optimizer With U-Net For Precision Retinal Vessel Segmentation In Fundus Images

	30	A New Modified Extended Incremental Clustering Algorithm to Handle Real time Dynamic Data
	105	An improved road lane-line detection by reducing shadowing effects
12:45 PM to 01:45 PM	LUNCH BREAK	
Paper Presentation Session 3 (Online) (10 mins for each presentation including Q&A) Session Chair Prof. K. Meena, Dr. N. Gayathri		
2.00 PM to 4:15 PM	PaperID	Title of Papers
	78	Detection and Recognition of Cancer Cells in Brain by Adopting Grey Length Matric Method Using MRI Images
	126	Hummingbird-optimizer and Otsu/Kapur Assisted Segmentation of Foot-Ulcer
	69	A Literature Survey - Application of Image Processing for the Effective Diagnosis of Rod Cone Dystrophy Using by OCT
	90	OPTIMIZATION OF PATH PLANNING FOR AUTOMATED VEHICLES USING SLAM ALGORITHM
	85	Detection Of Tampered Images With Convolutional Neural Networks(VGG-16)
	99	Efficient Speech Recognition Pipeline for the Automated Radiology Reporting: A Comparative Analysis using combinations of Natural Language Processing Models and Large Language Models
	28	Enhancing DNS and IoT Firewall Rule-Based Algorithms and Techniques
	92	Student Engagement Detection using Path Aggregation Network with Resnet

DAY-3(24thNovember2023)

10:00AMto 11:00AM

NameofSpeaker&Title

Keynote Talk 2: Prof. Henry Selvaraj
Professor, Department of Electrical and Computer Engineering, University of Nevada, Las Vegas, USA
TitleoftheTalk: "Utilizing Machine Learning to Mitigate The Impact of Absent Sensor Data on RTOS Enabled Internet of Things (IoT) Systems"

11:00AMto 11:15AM

TEA BREAK

Paper Presentation Session2(Online)
(10 mins for each presentation including Q&A)
Session Chair: Dr. N. Dayanand Lal, Dr. S. Rakesh
kumar

11:15 AM to 12.45 PM

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An innovative approach to track vehicles in dead zones using LoRaWAN

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Exploring Techniques to Safeguard Credit Card Transactions: A Comprehensive Study on Fraud Detection and Prevention

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Sketch-to-face generation using GAN for suspect identification

66

Comparative Analysis of Dynamic Data Placement Strategy in Distributed Cloud Environment

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Remote Video Quality Assessment using Machine Learning

79

Optimization of IoT devices in Smart home to minimize cost and energy conservation

70

SMSecure: LEVERAGING MACHINE LEARNING FOR SMISHING DETECTION

12:45 PM to 01:45 PM

LUNCH BREAK

Valedictory Function and Vote of Thanks