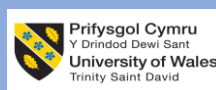



KARNATAK UNIVERSITY
DHARWAD

INTERNATIONAL CONFERENCE ON RESPONSIBLE ARTIFICIAL INTELLIGENCE (ICRAI - 2025)

In Association with



Day - 1 : 15th Dec. 2025

C O N F E R E N C E S C H E D U L E

08:00 am – 9:00 am	Registration	
9:00 am – 10:00 am	Inauguration of ICRAI – 2025 Chief Guest: Sri. U. T. Khader Fareed Hon'ble Speaker, Karnataka Legislative Assembly, Karnataka Guest of Honour : Prof. S. R. Niranjana, Vice-Chairman, KSHEC : Prof. P. L. Dharma, Hon'ble Vice-Chancellor, Mangalore University, Mangalore : Prof. B. D. Kumbar, Hon'ble Vice-Chancellor, Davangere University, Davangere President: Prof. A. M. Khan Hon'ble Vice-Chancellor, Karnatak University, Dharwad	
10:00 am – 10:45 am	Keynote Address	Responsible AI: Navigating the Ethical, Legal and Technological Frontiers. Keynote Address: Prof. S. R. Mahadeva Prasanna, Director IIIT, Dharwad Session chair: Dr. Annappa B. NITK, Surathkal
10:45 am – 11:30 pm	Keynote Address	Topic: Understanding the Reliability Limits of Large Language Models Speaker: Prof. Simon Thorne, Cardiff Metropolitan University UK Session chair: Dr. Aziz Makandar, Akkamahadevi Women's University (K S W) University, Vijayapur

SESSION – 1

Session – 1 (Paper Presentation)		Session chairs: 1. Dr. Thippeswamy Nagarjuna College of Engineering, Bengaluru 2. Dr. Geetha Kiran A, Malnad College of Engineering, Mysore		
Time	ID	Paper Title	Presenter	Presentation Mode
12:00 pm to 02:00 pm	19	Recognition of Emotions using PSD Features of EEG Data with SVM Classifier	<i>Rabiya Basree</i>	in-person
	41	Enhanced Security for Cancelable Multimodal Biometric Template Protection Using DCT and Lagrange Interpolation	<i>K Vannurswamy</i>	in-person
	87	HOG with machine learning classifiers: A bimodal based person authentication approach	<i>Swathi K</i>	in-person
	102	Efficient Kannada Handwritten Character Recognition Using CNN and Transfer Learning	<i>Shivaraj Maleppanavarmath</i>	in-person
	103	A Parameter-Free Clustering Algorithm Based on Data Density	<i>Nagaraj Honnikoll</i>	in-person
	104	Causality-Driven Graph Neural Network–LSTM Framework for Spatio-Temporal Forecasting of Urban NO2 Concentrations	<i>Ms Rashmi Amin</i>	in-person
	105	Enhanced AdaBoost with Instance Hardness Awareness and Confidence-Based Alpha Adjustment	<i>Sushma S</i>	in-person
	130	Privacy-Preserving Hybrid MobileNet–EfficientNet Framework for Biometric Payment Authentication	<i>Vidya Kumari</i>	in-person
	132	Three Stage Standardized Difference Filter for Dimensionality Reduction in Gene Expression for Multiclass Classification	<i>Sukanya Gabbur</i>	in-person
	145	Partition Driven Signature Detection in Multilingual Handwritten Documents	<i>Thejashwini B L</i>	in-person
02:00 pm – 03:00 pm	-----LUNCH BREAK-----			

SESSION – 2

03:00 pm – 03:30 ppm	Plenary Talk – 1	Topic: AI for a Net-Zero Systems: Modelling Complexity and Sustainable Transitions Speaker: Dr. Angesh Anupam, Cardiff Metropolitan University, UK Session chair: Prof. Satyadhyan Chickerur, K. L. E. Tech. Hubballi		
Session – 2 (Paper Presentation)		Session chairs: 1. Dr. M. Sharmila Kumari, P. A. College of Engineering, Mysore 2. Dr. Sridevi, Karnatak University, Dharwad		
Time	ID	Paper Title	<i>Presenter</i>	Presentation Mode
03:30 pm to 05:30 pm	172	CNN-Based Evaluation of Gender Inclusivity in Visual Data Representations	<i>Israa Bazo</i>	Online
	182	Automated Academic Timetable Generation Using Constraint-based Insertion and Iterative-Local Swap based Optimization Techniques	<i>Nishchith</i>	Online
	205	Utilising Transparent Machine Learning to Determine the True and Equitable Valuation of Marketing Channels		Online
	210	A Framework for Cross-Border Data Interoperability in Telehealth: The HARMONI Model	<i>Priyesh Dhole</i>	Online
	276	A Comprehensive Review of the Scope and Effectiveness of Artificial Intelligence in Healthcare		Online
	75	Face and Iris based Person Recognition Through CNN-Based Feature Extraction	<i>K Vannurswamy</i>	in-person
	198	Encrypted QR Code-Based Framework for Classification of Lung Cancer from CT Images using ConvNeXt Model	<i>Arshiya Sultana</i>	in-person
	233	Enhancing Intelligent Transportation System: A Deep Learning Approach for Real-Time Car Make and Color Detection	<i>Shivanagouda</i>	in-person
	316	A Lightweight Vision Transformer Framework for Real-Time Product Quality Assessment on Mobile Devices	<i>Shashiprabha</i>	in-person
05:45 pm – 06:00 pm	----- TEA BREAK -----			

06:00 pm – 06:30 pm	Plenary Talk - 2	Topic: Evolving AIML Models for Different Applications Speaker: Dr. Dileep A.D. Dept. of Computer Science and Engineering, IIT, Dharwad Session chair: Dr. Shashidhar G. Koolagudi, NITK, Surathkal		
06:30 pm onwards	Networking Break			
7.00 pm onwards till dinner	Cultural Events			

Day – 2 : 16th Dec. 2025

SESSION – 3

C O N F E R E N C E S C H E D U L E				
09:00 am – 09:40 am	Invited Lecture - 1	Topic: Making Machines Learn Speaker: Dr. Shashidhar G. Koolagudi, NITK, Surathkal. Session chairs: 1. Dr. Channamma Patil, A.G.M Rural college of Engineering, Varur 2. Dr. Harish Kumar, K.S Presidency University, Bangalore		
Session – 3 (Paper Presentation)		Session chairs: 1. Dr. Shivashankar. S, Karnatak University, Dharwad 2. Dr. H. L. Shashirekha, Mangalore University, Mangalore		
Time	ID	Paper Title	Presenter	Presentation Mode
09:40 am to 11:10 am	81	Raagamitra: Intelligent Sound-Based Learning of Indian Classical Instrument Tabla	Deepak D Nayak	in-person
	219	Syracase: YOLOv11-Based Real-Time Drone Detection in Dynamic Environments	Shivaprasad Acharya	in-person
	234	ISIRI-Tulu English Translator and Voice Assistant	Rakshitha B Bhajentri	in-person
	14	Contribution HybridStressNet: A Hybrid SVM–Regression Framework for Classifying EEG-Based Mental Workload States	S. Mohanapreetha	Online
	15	LiteBrain-Net: An Ultra-Lightweight SqueezeNet-Based Framework for Brain Tumor Detection Using MRI Scans	R.S. HARITHA DEVI	Online
	25	Comparative Analysis of Deep Learning Architectures for Medicinal Plant Species Recognition: A Case Study from India Region	Mr. Gururaj K	Online
	36	Deep Learning-Based Facial and Speech Emotion Recognition for Adaptive Music Recommendation	H Leyasri	Online
	40	Reinforcement Learning Approaches for Underwater Wireless Sensor Networks: A Survey	Vinay H S	Online
	42	Earthquake Detection using Machine Learning Techniques	M Paandiyavarshini	Online
	62	COMPREHENSIVE STUDY ON AUTOMATIC HELMET VIOLATION SYSTEM USING CONVOLUTIONAL BLOCK ATTENTION MODULE	Varsha M	Online
11:20 am – 11:30 am	----- TEA BREAK -----			

SESSION – 4

11:30 am – 12:10 am	Invited Lecture - 2	Topic: AI in Healthcare Speaker: Dr. Anilkumar Nandi KLE Tech. University, Hubballi Session Chair: Dr. B. H. Shekar, Mangalore University		
Session – 4 (Paper Presentation)		Session chairs: 1. Dr. H.S. Nagendraswamy University of Mysore, Mysore 2. Dr. Nagasundara V. V. College of Engineering, Mysore		
Time	ID	Paper Title	<i>Presenter</i>	Presentation Mode
12:10 pm to 01:30 pm	83	CodeFix:AI-Powered Auto Code Completion, Debugging and Test Case Generation	<i>Gagana N</i>	Online
	98	Identification of Monumental Elements of Jain Basadi using Machine Learning	<i>K Samyuktha Pai</i>	Online
	99	Synergistic Effects of Hybrid Resampling and Cost-Sensitive Learning on Water Quality Classification	<i>Jeshma Nishitha Dsouza</i>	Online
	124	Hybrid DistilBERT–ResNet Model with Emoji Embeddings and Landmark-Based Attention for Sentiment Analysis	<i>Akash Javali</i>	Online
	127	A Systematic Literature Review: Securing Software-Defined Networks Against DDoS Attacks	<i>Daniel James</i>	Online
	131	A Real-Time Multilingual Translation System for Railway Stations: Integrating Speech Recognition, Neural Translation, and Generative AI	<i>Syed Mohammed Umar</i>	Online
	139	Artificial intelligence for Software Defined Network security: A bibliometric analysis	<i>Renuga Jayakumar</i>	Online
	147	Mystic-Verse: An NLP enabled Machine Translation System for Kabir Das Doha’s into English	<i>Tusmein Ridha</i>	Online
	158	Energy–Fairness Trade-offs in Multilingual Transformer Evaluation: Evidence from Indic Languages	<i>Ms. Arti Bansode</i>	Online
01:40 pm – 02:30 pm	----- LUNCH BREAK -----			

SESSION – 5

02:30 pm – 03:10 pm	Invited Lecture - 3	Topic: Stress-Testing Responsibility: A Red-Team Analysis of LLM Guardrail Vulnerabilities Speaker: Dr. Pruthviraj Mundaragi, Dextrel University, USA Session chairs: Dr. Shashidhar G. Koolagudi, NITK, Surathkal		
Session – 5 (Paper Presentation)		Session chairs: 1. Dr. Manjaiah. D. H, Mangalore University, Mangalore 2. Dr. Bharathi. R. K. J. J. College of Engineering, Mysore		
Time	ID	Paper Title	Presenter	Presentation Mode
03:10 pm to 04:30 pm	163	Computer Vision-based Recognition of Queen Bees in colonies Using Faster R-CNN	<i>Sivasurya S</i>	Online
	168	Block Chain Enabled Adaptive Reinforcement Learning Framework for Fortify Security Path in Wireless Sensor Networks	<i>Velpula Ravindra Reddy</i>	Online
	174	Deep Reinforcement Learning (DRL)-Driven Multi-Objective Resource Allocation for Energy-Efficient Fog Networks	<i>Vinaya Durga M</i>	Online
	179	Link2Math: A Lightweight, Offline Tool for Snip-to-Edit Conversion of Mathematical Equations	<i>Disha Jagadish Giri</i>	Online
	194	Mitigating Linguistic Priors in Low-Resource Hausa and Code-Mixed Hausa Visual Question Answering	<i>Alhaji Idi Babate</i>	Online
	221	Automated Skin Lesion Segmentation Using an Attention-Guided Transfer Learning Framework	<i>Mohammad Zaher Taljeh</i>	Online
	235	Deep GaborNet: A Robust CNN-Based Model for Hyperspectral Face Recognition	<i>Ms. Nausheeda B S</i>	Online
	236	Striving for Enhanced NMT: Incorporating Morphological Cues in Kannada–Tulu Neural Machine Translation Systems	<i>Ms. Asha Hegde</i>	Online
	248	Optimization of Sombor Indices of Molecular Graphs via Machine Learning	<i>Rich K. J</i>	Online
260	Deep Learning Meets Traditional ML: A Comparative Study of LSTM, GRU, and Logistic Regression for Sentiment Analysis	<i>Mayank Kumar</i>	Online	
04:50 pm – 05:00 pm		----- HIGH TEA -----		
05:00 pm onwards		----- VALEDICTORY -----		

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Inaugural Programme

08:55 am	Arrival of Guests in the Hall
09:00 am	Start of the programme
09:02 am	Prayer: Students of Computer Science Department
09:05 am	Welcome & Introduction: Dr. Ishwar Baidari Convenor, ICRAI-2025
09:15 am	Lighting the lamp: Dignitaries on the dais
09:20 am	Inaugural Address: Sri. U. T. Khader Fareed Hon'ble Speaker, Karnataka Legislative Assembly, Karnataka
09:35 am	Felicitations of Chief Guest: Prof. A. M. Khan Hon'ble Vice-Chancellor, Karnatak University, Dharwad Prof. S. R. Niranjana, Vice-Chairman, KSHEC Prof. P. L. Dharma, Hon'ble Vice-Chancellor, Mangalore University, Mangalore Prof. B. D. Kumbar, Hon'ble Vice-Chancellor, Davangere University, Davangere
09:40 am	Presidential remarks: Prof. A. M. Khan Hon'ble Vice-Chancellor, Karnatak University, Dharwad
09:55 am	Vote of thanks: Dr. Shivashankar. S Professor, Department of computer Science, Karnatak University, Dharwad
10:00 am	Tea Break

10:30 am: Keynote Address

Date: 15th Dec. 2025, 09:00 AM