# Schedule for ICON2024

## 20-21 December 2024

## AU-KBC Research Centre, MIT campus of Anna University, Chennai

| 20th December 2024 – Day 1 | | | | | |
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| **Date** | **Time** | **Session** | **Chair** | **Repertoire** | **Venue** |
| | 9.15 AM – 10.00 AM | **Inaugural** | | | |
| 20th Dec 2024 | 10:00 AM - 11:00 AM | **Keynote 1:** Culturally Aware Machines: Why and when are they useful?<br>**Prof.Monojit Choudhary**, Mohamed Bin Zayed University of Artificial Intelligence, Abu Dhabi | | | Rajam Hall |
| | 11.30 AM – 12.00Noon | **Industry Session: Presentation by Mr Amitabh Nag, CEO**, Digital India Bhashini Division (DIBD) | | | Rajam Hall |
| | 12.00 Noon - 1.00 PM | **Oral Presentation Session (Parallel Sessions)** | | | |
| | | **Session 1**: **QA, Information Extraction + Information Retrieval and Text Mining**<br><br>*Sumotosima : A Framework and Dataset for Classifying and Summarizing Otoscopic Images*<br><br>*Exploring Expected Answer Types for Effective Question Answering Systems for low resource language.*<br><br>*Precision Empowers, Excess Distracts: Visual Question Answering With Dynamically Infused Knowledge In Language Models*<br><br>*Improving Few-shot Prompting using Cluster-based Sample Retrieval for Medical NER in Clinical Text* | | | Charles Babbage building – Conference Hall 1 |

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| | | *Standardizing Genomic Reports: A Dataset, A Standardized Format, and A Prompt-Based Technique for Structured Data Extraction* | | | |
| | | **Session 2: Language Resource & Low Resource Languages**<br><br>*Identification of Idiomatic Expressions in Konkani Language Using Neural Networks*<br>*Konkani Wordnet Visualizer as a Concept Teaching-Learning Tool*<br>*A Systematic Exploration of Linguistic Phenomena in Spoken Hindi: Resource Creation and Hypothesis Testing*<br><br>*A Corpus of Hindi-English Code-Mixed Posts to Hate Speech Detection*<br><br>*An Aid to Assamese Language Processing by Constructing an Offline Assamese Handwritten Dataset* | | | Charles Babbage building – Conference Hall 2 |
| | | **Session 3: Sentiment Analysis and Summarization**<br><br>*Monolingual text summarization for Indic Languages using LLMs*<br><br>*Enhancing Trust and Interpretability in Malayalam Sentiment Analysis with Explainable AI*<br><br>*Automatic Sanskrit Poetry Classification Based on Kāvyaguṇa*<br><br>*From Data to Insights: The Power of LM's in Match* | | | Charles Babbage building – Conference Hall 3 |

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| | | *Summarization*<br><br>*Sentiment and sarcasm: Analyzing gender bias in sports through social media with deep learning* | | | |
| | 02.00 PM - 03:00 PM | **Oral Presentations (Parallel Sessions)** | | | |
| | | **Session 4: Machine Translation**<br><br>*Quality Estimation of Machine Translated Texts based on Direct Evidence Approach*<br><br>*Reconsidering SMT Over NMT for Closely Related Languages: A Case Study of Persian-Hindi Pair*<br><br>*RoMantra: Optimizing Neural Machine Translation for Low-Resource Languages through Romanization*<br><br>*Domain Dynamics: Evaluating Large Language Models in English-Hindi Translation*<br>*Synthetic Data and Model Dynamics based Performance Analysis for Assamese-Bodo Low Resource NMT* | | | Charles Babbage Building – Conference Hall 1 |
| | | **Session 5: Machine Learning**<br><br>*Detecting AI-Generated Text with Pre-Trained Models Using Linguistic Features*<br><br>*Towards Understanding the Robustness of LLM-based Evaluations under Perturbations*<br><br>*Exploring Kolmogorov Arnold Networks for Interpretable Mental Health Detection and Classification from Social Media Text*<br><br>*Human vs Machine: An Automated Machine-* | | | Charles Babbage building – Conference Hall 2 |

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| | | *Generated Text Detection Approach*<br>*Survey on Computational Approaches to Implicature* | | | |
| | | **Session 6: Discourse**<br>*Exploring User Dissatisfaction: Taxonomy of Implicit Negative Feedback in Virtual Assistants*<br>*Pronominal Anaphora Resolution in Konkani language incorporating Gender Agreement*<br>*Story-Yarn : An Interactive Story Building Application*<br>*End to End Multilingual Coreference Resolution for Indian Languages*<br>*LangBot-Language Learning Chatbot* | | | Charles Babbage building – Conference Hall 3 |
| | 3.00 PM – 3.30 PM | **Poster Session**<br>*Natural Answer Generation: From Factoid Answer to Full-length Answer using Grammar Correction*<br>*Assessing Assamese Suffix Productivity: A Probabilistic Study in Resource-Limited Contexts*<br>*TRO(F)LL or ROFL ? : Exploring Troll Detection in Tamil Memes*<br>*Empowering SW Security: CodeBERT and Machine Learning Approaches to Vulnerability Detection*<br>*Improving on the Limitations of the ASR Model in Low-Resourced Environments Using Parameter-Efficient Fine-Tuning* | | | |

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| | | *Open-Source OCR Libraries: A Comprehensive Study for Low Resource Language*<br><br>*A Comparative Assessment of Machine Learning Techniques in Kannada Multi-Emotion Sentiment Analysis*<br><br>*SansGPT: Advancing Generative Pre-Training in Sanskrit*<br><br>*Automating Humor: A Novel Approach to Joke Generation Using Template Extraction and Infilling*<br><br>*Chirp Group Delay based Feature for Speech Applications*<br><br>*LOC: Livestock Ontology Construction Approach From Domain based Text Documents*<br><br>*Extractive Summarization using Extended TextRank Algorithm*<br><br>*Enhancing Masked Word Prediction in Tamil Language Models: A Synergistic Approach Using BERT and SBERT*<br><br>*DesiPayanam: developing an Indic travel partner*<br><br>*A Survey on Combating Hate Speech through Detection and Prevention in English*<br><br>*Integration of Self-Attention Model with Intralingual Word Embedding for Contextual Semantic Analysis of Thirukkural Text* | | | |

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| | 3.30 PM-4.00 PM | **Panel Session ( Industry)** | | | Charles Babbage building – Conference Hall 1 |
| | 04:00 PM - 5:00 PM | **Keynote 2:**Syntactic Blocking Effects in Hindi: a computational exploration<br>**Prof. Rajesh Bhatt,** University of Massachusetts, Amherst | | | Rajam Hall |

| 21st December 2024 – Day 2 | | | | | |
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| 21st Dec 2024 | 10:00 AM - 11:00 AM | **Keynote 3:** Why AI Is WEIRD and Should Not Be This Way: Towards AI For Everyone,With Everyone, By Everyone<br>**Prof.Rada Mihalcea,** AI Lab, Univ of Michigan | | | Online<br>(Rajam Hall) |
| | 11.30 AM - 12:30 PM | **Special Session :**<br>**Language Technology – Challenges in R&D Deployment**<br>**The Secretary**<br>**Ministry of Electronics and Information Technology( MeitY)** | | | Rajam Hall |
| | 12.30PM -01.00 PM | **Poster Session**<br>*A self-supervised domain-independent Named Entity Recognition using local similarity*<br>*Profanity and Offensiveness Detection in Nepali Language Using Bi-directional LSTM Models*<br>*PollCardioKG: A Dynamic Knowledge Graph of Interaction Between Pollution and Cardiovascular Diseases*<br>*Shabdocchar: Konkani WordNet Enrichment with Audio Feature*<br>*Analytics Graph Query Solver (AGQS):* | | | |

*Transforming Natural Language Queries into Actionable Insights*

*Emojis Trash or Treasure: Utilizing Emoji to Aid Hate Speech Detection*

*Aspect-based Summaries from Online Product Reviews: A Comparative Study using various LLMs*

*Trigger Optimization for Black-Box Universal Adversarial Attacks on Text Classifiers*

*Sentiment Analysis for Konkani using Zero-Shot Marathi Trained Neural Network Model*

*Persuasion Games with Large Language Models*

*Vector Embedding Solution for Recommendation System*

*Multi-document Summarization by Ensembling of Scoring and Topic Modeling Techniques*

*Review on Sanskrit - Malayalam Shloka and text Machine translation Using Deep learning Techniques*

*Mocktails of Translation, Ensemble Learning and Embeddings to tackle Hinglish NLP challenges*

*Landscape Painter: Mimicking Human Like Art Using Generative Adversarial Networks*

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| | | *Automatic Summarization of Long Documents*<br><br>*Pronunciation scoring for dysarthric speakers with DNN-HMM based goodness of pronunciation (GoP) measure*<br><br>*Severity Classification and Dysarthric Speech Detection using Self-Supervised Representations* | | | |
| | | **Oral Presentations (Parallel Sessions)** | | | |
| | 2.00 PM- 3.30PM | **Session 7: Speech Processing +OCR +Multimodality**<br><br>*Towards Efficient Audio-Text Keyword Spotting: Quantization and Multi-Scale Linear Attention with Foundation Models*<br><br>*Utilizing POS-Driven Pitch Contour Analysis for Enhanced Tamil Text-to-Speech Synthesis*<br><br>*RoundTripOCR: A Data Generation Technique for Enhancing Post-OCR Error Correction in Low-Resource Devanagari Languages*<br><br>*MULTILATE: A Synthetic Dataset on AI-Generated MULTImodaLhATE Speech*<br><br>*We Care: Multimodal Depression Detection and Knowledge Infused Mental Health Therapeutic Response Generation*<br><br>*CM_CLIP: Unveiling Code-Mixed Multimodal Learning with Cross-Lingual CLIP Adaptations* | | | Charles Babbage Building – Conference Hall 1 |

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| | | **Session 8: NLP Applications**<br><br>*Aiding Non-Verbal Communication: A Bidirectional Language Agnostic Framework for Automating Text to AAC Generation*<br>PiyaliKarmakar and manjirasinha<br><br>*Towards Enhancing Knowledge Accessibility for Low-Resource Indian Languages: A Template Based Approach*<br>*Value to User's Voice: A Generative AI Framework for Actionable Insights from Customer Reviews in Consumer Electronics*<br><br>*Comprehensive Plagiarism Detection in Malayalam Texts Through Web and Database Integration*<br><br>*MalUpama - Figurative Language Identification in Malayalam -An Experimental Study*<br><br>*Survey of Pseudonymization, Abstractive Summarization & Spell Checker for Hindi and Marathi* | | | Charles Babbage Building – Conference Hall 2 |
| | 2.30 PM-3.30 PM | **Shared Task** | | | Charles Babbage Building – Conference Hall 3 |
| | 2..30 PM – 3.30 PM | **Demo Session** | | | |
| | 3.30PM | **Poster Booster Session (Parallel session)** | | | |
| | 03.30 PM - 04:30 PM | **Poster Booster Presentation – Session 1** | | | Charles Babbage Building – |

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| | | *Natural Answer Generation: From Factoid Answer to Full-length Answer using Grammar Correction*<br><br>*Assessing Assamese Suffix Productivity: A Probabilistic Study in Resource-Limited Contexts*<br><br>*TRO(F)LL or ROFL ? : Exploring Troll Detection in Tamil Memes*<br><br>*Empowering SW Security: CodeBERT and Machine Learning Approaches to Vulnerability Detection*<br><br>*Improving on the Limitations of the ASR Model in Low-Resourced Environments Using Parameter-Efficient Fine-Tuning*<br><br>*Open-Source OCR Libraries: A Comprehensive Study for Low Resource Language*<br><br>*A Comparative Assessment of Machine Learning Techniques in Kannada Multi-Emotion Sentiment Analysis*<br><br>*SansGPT: Advancing Generative Pre-Training in Sanskrit* | | | Conference Hall 2 |
| | | **Poster Booster Presentation – Session 2**<br><br>*Automating Humor: A Novel Approach to Joke Generation Using Template Extraction and* | | | Charles Babbage Building – Conference Hall 3 |

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| | | *Infilling*<br><br>*Chirp Group Delay based Feature for Speech Applications*<br><br>*LOC: Livestock Ontology Construction Approach From Domain based Text Documents*<br><br>*Extractive Summarization using Extended TextRank Algorithm*<br><br>*Enhancing Masked Word Prediction in Tamil Language Models: A Synergistic Approach Using BERT and SBERT*<br><br>*DesiPayanam: developing an Indic travel partner*<br><br>*A Survey on Combating Hate Speech through Detection and Prevention in English*<br><br>*Integration of Self-Attention Model with Intralingual Word Embedding for Contextual Semantic Analysis of Thirukkural Text.* | | | |
| | 4.30 PM – 5.00 PM | **Doctoral Consortium** | | | Charles Babbage Building – Conference Hall 2 |
| | 05:00 PM-6.00 PM | **Keynote 4:**Machine Speech Chain: From Human Auditory Feedback Principles to Language Technology Empowering Indigenous Communities<br>**Prof.Sakriani Sakti,** Head of Human-AI Interaction, Nara Institute of Science & Technology, Japan (Speaker Online) | | | Charles Babbage Building – Conference Hall 1 |