Fourth International Conference on Speech and Language Technologies for Low-Resource Languages - SPELLL 2025

18th to 20th, December 2025 - Paper Presentation Schedule

Indian Institute of Information Technology Kottayam, Kerala, India

DAY-1				
Track-1: Language Resources (LRs) - PANEL I				
Venue	**BB218**	**Link:** TBA		
Day 1: 18th December 2025, Thursday			**Time: 02:00 PM - 04:00 PM**	
Session Chairs: Chair 1 & Chair 2				
S. No	**Paper ID**	**Paper Title**	**Author Names**	**Presentation Time (IST)**
1	30	English Pronunciation through Malayalam in English-Malayalam Dictionaries: A Lexico-Phonetic Intervention	JIJI CHANDRAN, Noora Abdul Hakim Khan	*02:00 p.m. - 02:15 p.m.*
2	133	Grapheme-Based Part-of-Speech Tagging for Tamil Using Machine Learning Approaches	RM Soundar Arunachalam, C Janarthanan, A M ABIRAMI, Anitha D	*02:15 p.m. - 02:30 p.m.*
3	172	KRISHI: An Annotated Dataset for Agricultural Text Classification in Malayalam	Anjana Sankar, Aisha Nama, Jeena Kleenankandy	*02:30 p.m. - 02:45 p.m.*
4	55	Generative AI for Low-Resource NLP: Evaluating Khmer Data Generation for Homophone Spelling Correction	Seanghort Born, Madeth MAY, Claudine Piau-Toffolon, Sébastien Iksal	02:45 p.m. - 03:00 p.m.
5	114	Nalam AI : Novel Assistive Language Medical AI Device For Instantaneous Monitoring and Intelligent Healthcare	RAJASUNDARI THANGADURAI, DR. ASHWINTH JANARTHANAN	03:00 p.m. - 03:15 p.m.
6	77	Integrating Tolkāppiyam Ezhuthathikaram into AI: Fine-Tuning Large Language Models for Tamil Grammar	Subalalitha Chinnaudayar Navaneethakrishnan, Sathiyaraj Thangasamy, R.Nithya, Muneesmoorthy M, Rajendran N, Kavitha P, Karunya V, Mythily M, Boopalan S	03:15 p.m. - 03:30 p.m.

Track-2: Language Technologies (LT) - PANEL II		
Venue	**BB204**	**Link:** TBA

Day 1: 18th December 2025, Thursday				Time: 02:00 PM - 04:00 PM	
Session Chairs: Chair 1 & Chair 2					
S. No	Paper ID	Paper Title	Author Names	Presentation Time (IST)	
1	80	NeuroLex: A Neuro-Symbolic AI-Driven Legal Contract Analyzer	Jiya Ajith, Anoopa S, Sumam Mary Idicula	*02:00 p.m. - 02:15 p.m.*	
2	20	A Multilingual Adaptive Prompt Framework for Dialogue Systems in Low-Resource Indian Languages	SAUVIK BAL, LOPA MANDAL	02:15 p.m. - 02:30 p.m.	
3	21	TAMEAT- Tool to analyze Tamil language skills of undergraduate students in Tamil Nadu	Sathiyaraj Thangasamy, Subalalitha Chinnaudayar Navaneethakrishnan, Dhanalakshmi V, P. Kavitha, Mythily M, Rajendran Nallathambi, Karunya V, Nithya R, Sangeetha Sivanesan	02:30 p.m. - 02:45 p.m.	
4	24	Adopting Large Language Models for Automated Legal Document Annotation and Labeling	Hemanth Kumar M, Sowmya Kamath S., Supreetha R	02:45 p.m. - 03:00 p.m.	
5	36	Byte-Level Tokenization over MuRIL and Multitask Learning for Classification Tasks in Code-Mixed Dravidian Languages	Archana K P, Premjith B	03:00 p.m. - 03:15 p.m.	
6	67	Exploring NMT Approaches and Vocabulary Optimization for Low-Resource Languages: A Case Study of English-Nepali-Tamang	Bipesh Subedi, Bal Krishna Bal, Prakash Poudyal, Rupak Raj Ghimire, Praveen Acharya, Balaram Prasain	03:15 p.m. - 03:30 p.m.	
7	69	Low-Resource Legal NLP: Summarizing Nepali Legal Documents with Multilingual Transformers	Arpan Sapkota, Rupak Raj Ghimire	03:30 p.m. - 03:45 p.m.	

Track-2: Language Technologies (LT) - PANEL III					
Venue	**Mukhil**	Link: TBA			
Day 1: 18th December 2025, Thursday				Time: 02:00 PM - 04:30 PM	
Session Chairs: Chair 1 & Chair 2					
S. No	Paper ID	Paper Title	Author Names	Presentation Time (IST)	
1	143	Knowledge Graph-based Retrieval for Tamil Siddha Medicines	Seetharam Killivalavan, Thenmozhi Durairaj	*02:00 p.m. - 02:15 p.m.*	
2	82	Offensive language identification on Dravidian languages using Transformer-based embedding with Deep Learning Techniques	Varun Balaji S, Bojja Revanth Reddy, Vyshnavi Reddy Battula, Suraj Nagunuri, Balasubramanian Palani	02:15 p.m. - 02:30 p.m.	
3	86	Multi-Task Learning for Marathi	Amogh Thakurdesai, Suramya Jadhav, Ridhima Sinare, Abhay Shanbhag, Raviraj Bhuminand Joshi, Sheetal S. Sonawane	02:30 p.m. - 02:45 p.m.	
4	96	A Hybrid Framework for Tamil Text Summarization using Multilingual Transformers	Srimathi R, K.R. Premlatha, A M ABIRAMI, SHARMILA P	02:45 p.m. - 03:00 p.m.	
5	128	Comparative Analysis of Multilingual Transformer Models for Offensive Language Identification in Telugu: A Cross Paradigm Multilingual learning	Jadi Ashwini, Munawwar K V, Nandhini Kumaresh	03:00 p.m. - 03:15 p.m.	

6	141	Indian Legal Text Question Answering and Summarization Using Reinforcement Learning	Shreesha M, Pranav Moothedath, Abhishek Srinivas, Anand Kumar Madasamy	03:15 p.m. - 03:30 p.m.
7	149	Context-Aware Filtering and Semantic Feature Optimization for Tamil and Malayalam Sentiment Analysis	SUMY T O , Dr. A.Vinoth	03:30 p.m. - 03:45 p.m.
8	163	ITATA: An Instruction-Tuned Framework for Aspect Term Analysis	SOUBRAYLU SIVAKUMAR, Jyothi Prakash, J Nagaraj, Selvanayaki Kolandapalayam Shanmugam, T Rajesh Kumar, Subalalitha Chinnaudayar Navaneethakrishnan	03:45 p.m. - 04:00 p.m.

Track-3: Speech Technologies (ST) - PANEL IV				
Venue	**BD400**	Link: TBA		
Day 1: 18th December 2025, Thursday		Time: 02:00 PM - 04:00 PM		
Session Chairs: Chair 1 & Chair 2				
S. No	Paper ID	Paper Title	Author Names	Presentation Time (IST)
1	130	Improving Tamil Language Proficiency Through Real-Time Pronunciation and Spelling Error Identification	Keerthi Priya M S, Namshika S N, Bharathi B	*02:00 p.m. - 02:15 p.m.*
2	26	Speech-based Detection of Tamil Dialects: From Standard to Regional Variants	Anitha D, Srimathi S, Ms. Sherin Sahai V, Ms. Pavithra KB, Ms. Sanjanah A, Ms. Sheraffin Ithai V	02:15 p.m. - 02:30 p.m.
3	27	From Voice to Vision: A Comprehensive Approach to Speech Emotion Recognition	Sannidhya Das, Dipanjan Saha, Subharthi Ray, Sainik Kumar Mahata, Dipankar Das	02:30 p.m. - 02:45 p.m.
4	89	A Scalable Noise-Robust Speech Recognition Framework for Multilingual and Low-Resource Speech	Jairam R, Barathi Ganesh HB, JYOTHISH LAL G	02:45 p.m. - 03:00 p.m.
5	94	DraviMood: Speech-Based Depression Classification in Dravidian Languages Using Feature Fusion and Deep Learning	Kritika A, Meenakshy S, Arya Palackal Shijish, Riya Rajeev, JYOTHISH LAL G	03:00 p.m. - 03:15 p.m.

DAY-2				
Track-4: Computer Vision and Natural Language Processing (NLP) - PANEL V				
Venue	**BB204**	Link: TBA		
Day 2: 19th December 2025, Friday		Time: 10:00 AM - 12:00 PM		
Session Chairs: Chair 1 & Chair 2				
S. No	Paper ID	Paper Title	Author Names	Presentation Time (IST)

1	37	Hindi Text-to-Image Synthesis using an Attention-Enhanced DMGAN Model	Remya Gopalakrishnan, Sudeep P V	*10:00 a.m. - 10:15 a.m.*
2	93	A Complex Network Framework for Accurate Severity Assessment of Parkinson's Disease using Multimodal Data	Deepa Raj K, JYOTHISH LAL G, Juan Rafael Orozco-Arroyave, E A Gopalakrishnan	*10:15 a.m. - 10:30 a.m.*
3	10	Transformer-Based Malayalam Handwritten OCR with Linguistically Aware Tokenization	Ashmi S N, Dr. Manjusha K	10:30 a.m. - 10:45 a.m.
4	43	Multimodal Detection of Multiple Apex Frames in Micro-Expressions and Macro-Expressions using Bi-WOOF with Optical Strain	Harikrishnan M, Daleesha M Viswanathan	10:45 a.m. - 11:00 a.m.
5	88	Encoder-Decoder based Image Captioning in Nepali Language	Shreyansh Lodha, Rupak Raj Ghimire	11:00 a.m. - 11:15 a.m.
6	111	HVQA and CMH-VQA: Benchmarked Datasets for Evaluating VQA Systems in Hausa - A Low Resource Language	Alhaji Idi Babate, Hosahalli Lakshmaiah Shashirekha	11:15 a.m. - 11:30 a.m.

Track-4: Computer Vision and Natural Language Processing (NLP) - PANEL VI				
Venue	**BC304**	**Link:** TBA		
Day 2: 19th December 2025, Friday		**Time: 10:00 AM - 11:30 AM**		
Session Chairs: Chair 1 & Chair 2				
S. No	**Paper ID**	**Paper Title**	**Author Names**	**Presentation Time (IST)**
1	118	CogniLink: A Hybrid Assistive System for Alzheimer's Care Integrating InsightFace, an XGBoost Classifier, and a Rule-Based NLP Engine	Mohamedsipli M, Vengadeswaran S, Lekshmipriya S B, Selvi C, R Tharaniya sairaj	*10:00 a.m. - 10:15 a.m.*
2	120	Multimodal Fake News Classification using Transformer-Based Cross-Modal Attention	Dola Chakraborty, Kawsar Ahmed, Mohammed Moshiul Hoque	10:15 a.m. - 10:30 a.m.
3	145	Multimodal Late Fusion for Hate Speech Detection in Dravidian Languages	Jahnavi Murali, Rajalakshmi Sivanaiah	10:30 a.m. - 10:45 a.m.
4	158	Multimodal Speech Recognition through Cross-Modal Masked Pretraining and 3D Spatiotemporal Transformer	N.Rathipriya, N. Maheswari, Shreeneka D	10:45 a.m. - 11:00 a.m.
5	162	Zero-shot approach to Tamil Optical Character Recognition	Padma Venkatanarayanan, Chakravarthy Bhagvati	11:00 a.m. - 11:15 a.m.

Track-5: Applications of NLP - PANEL VII		
Venue	**BD404**	**Link:** TBA
Day 2: 19th December 2025, Friday		**Time: 10:00 AM - 11:30 AM**
Session Chairs: Chair 1 & Chair 2		

S. No	Paper ID	Paper Title	Author Names	Presentation Time (IST)
1	47	Listening Beyond Words: A Review on Natural Language Processing for Speech Disorders	Antony Arul Raj D, Lakshana V, Perumal P, Ravishinu G	*10:00 a.m. - 10:15 a.m.*
2	63	Interpretable Acoustic Features for Automated Severity Classification of Dysarthric Speech	Lavanya T, Harikrishnan Mahesh, Vijayalakshmi P	*10:15 a.m. - 10:30 a.m.*
3	87	A Comprehensive Evaluation of Embedding Strategies for COVID-19 Fake News Detection	Praveen Kumar S, Diya Prakash, R RANJITH KUMAR, SIRANJEEVI RAJAMANICKAM, Balasubramanian Palani	*10:30 a.m. - 10:45 a.m.*
4	53	Silent Cries Online: A Benchmark Dataset for Detecting Suicide Ideation in Hindi-English Code-Mixed Social Media Text with Deep Learning Applications	Pradeep, Deepawali Sharma, Aakash Singh, Vivek Kumar Singh	10:45 a.m. - 11:00 a.m.

Track-5: Applications of NLP - PANEL VIII				
Venue	**BD400**		**Link:** TBA	
Day 2: 19th December 2025, Friday			**Time: 10:00 AM - 11:30 AM**	
Session Chairs: Chair 1 & Chair 2				
S. No	Paper ID	Paper Title	Author Names	Presentation Time (IST)
1	144	Explainable AI for Emotion Divergence: Integrating NLP and Literary Theories in the Analysis of Malayalam Rap Artist Vedan's Lyrics	Ebin Deni Raj, Gayathri GR, Sara Renjit, Josit Mariya	*10:00 a.m. - 10:15 a.m.*
2	160	Leveraging GAN and Deep Reinforcement Learning for Low-Resource Dravidian Languages Translation	Ramakrishna Kolikipogu, Gadda Bhavya Shree, S Pavan Kumar, Potluri Sai Sandeep, Sagar Gujjunoori	10:15 a.m. - 10:30 a.m.
3	166	A Unique Research Framework: Robust, Explainable and Adaptive Malware Intelligence with SST-DTW and Attention-Enhanced ResNeXt++	Hardik Prakash Somkuwar, A. Balu	10:30 a.m. - 10:45 a.m.
4	171	Diacritization of Low-Resource using Deep Learning approach: The case of Algerian Dialect	CHERAGUI Mohamed Amine	10:45 a.m. - 11:00 a.m.