



WINTER SCHOOL ON SPEECH AND AUDIO PROCESSING (WISSAP-2024)

MULTILINGUAL SPEECH PROCESSING OF INDIC LANGUAGES

Koneru Lakshmaiah Education Foundation, Vaddeswaram - 522302, Andhra Pradesh, India



EVENT SUMMARY

Koneru Lakshmaiah Education Foundation is hosting WiSSAP-2024 from December 09-12, 2024, focusing on "Multilingual Speech Processing of Indic Languages". The event addresses India's linguistic complexity, spanning 11 classical, 22 official, and thousands of other languages spoken by 145 crore people. WiSSAP aims to bring together experts, researchers, and students to discuss fundamental and practical aspects of multilingual speech processing systems. Targeted at academic and research professionals, the winter school will feature invited talks, research presentations, and discussions on speech and audio processing challenges. This 17th edition of the annual event provides a platform for exploring cutting-edge developments in the field

ESTEEMED GUESTS



Dr. Bayya Yegnanarayana
IIIT Hyderabad



Dr. Shyam S Agrawal
KIIT Gurugram



Dr. Rajeev Sangal
IIIT Hyderabad



Dr. Swaran Lata
MeitY New Delhi

INVITED SPEAKERS



Dr. Hema A Murthy
IIT Madras



Dr. Anusha Prakash
Independent Researcher



Dr. C. Chandra Sekhar
IIT Madras



Dr. Sriram Ganapathy
IISc Bengaluru



Dr. P Vijayalakshmi
SSNCE Chennai



Prof. Nixon Patel
IIT Hyderabad



Dr. Hemant A. Patil
DA-IICT Gandhinagar



Dr. S Umesh
IIT Madras



Dr. K Sri Rama Murthy
IIT Hyderabad



Dr. Dileep A D
IIT Dharwad



Dr. Arun Sankar M S
SETU, Ireland



Dr. Vikram C M
Samsung R&D, Bengaluru.



Sri Pranaw Kumar
CDAC Mumbai



Dr. Debamalya Chakraborty
Amazon Alexa, Bengaluru



Dr. Priyankoo Sarmah
IIT Guwahati



Dr. Sreeram Ganji
Reliance Jio AICoE



Dr. Jagabandhu Mishra
UEF Finland



Dr. Govind D
KLEF Vaddeswaram



Dr. Rajeev Aravindakshan
AIIMS Mangalagiri



Dr. Rakesh U K
AIIMS Mangalagiri

For Registration Please Visit:

<https://wissap24.kluniversity.in/>

Contact:

wissap24@kluniversity.in

Time	December 9 (Day 1)	December 10 (Day 2)	December 11 (Day 3)	December 12 (Day 4)
08:00 a.m - 09:00 a.m	Registration	-	-	-
09:00 a.m - 10:30 a.m	Inaugural Function	Quantum Leap in Speech Recognition - Beyond Gen-AI and LLMs • Prof. Nixon Patel (9:00 a.m - 9:30 a.m)	Speech recognition in noisy environments: Focus on far field and call communications • Dr. Vikram C M (09:00 a.m - 10:00 a.m)	Implicit Processing of Speech for Spoken Language Diarization • Dr. Jagabandhu Mishra (09:00 a.m - 10:00 a.m)
		Pannel Discussion - Future direction of Speech Processing in Indian Languages	Development of Text to Speech Synthesis System for Santhali - A Low Resource Language • Sri Pranaw Kumar (10:00 a.m - 11:00 p.m)	Processing of speech recorded from stroke patients • Dr. Govind D (10:00 a.m - 11:00 a.m)
10:30 a.m - 11:00 a.m	HI Tea	Meet & Greet		
11:00 a.m - 12:00 a.m	Importance of phase in speech signal processing • Dr. Bayya Yegnanarayana	Multi-Lingual Audio Deepfake Detection Corpus • Dr. Hemant A Patil	Mingling Moment	Mingling Moment
			Attentive Multilingual Speech Encoder for Zero-Prior ASR • Dr. Debamalya Chakraborty (11:30 a.m - 12:30 p.m)	Approaches to recording and processing of voice samples of neurological patients • Dr. Rajeev Aravindakshan
12:00 a.m - 1:00 p.m	A multilingual perspective to TTS Synthesis for Indian languages. • Dr. Hema A Murthy • Dr. Anusha Prakash	Recent Efforts for Automatic Speech Recognition (ASR) in Indian Languages • Dr. S Umesh		
1:00 p.m - 02:30 p.m	Lunch Break	Lunch Break	Lunch Break (12:30 p.m - 02:00 p.m)	Lunch Break (12:30 p.m - 2:00 p.m)
02:30 p.m -03:30 p.m	Advances in Deep Learning Models • Dr. C. Chandra Sekhar	Speech Processing using Deep Neural Networks (DNN) • Dr. K Sri Rama Murthy	Learning for machines: Insights from acoustic analyses • Dr. Priyankoo Sarmah (02:00 p.m 03:00 p.m)	Insights into Speech Disorders: Bridging Research and Practice • Dr. Rakesh U K (02:00 p.m 03:00 p.m)
			Advancing Text-to-Speech Technology for Indic Languages: Motivation, Architectural Frameworks, and Performance Evaluation • Dr. Sreeram Ganji (03:00 p.m - 04:00 p.m)	Round Table Discussion
03:30p.m -04:30 p.m	Representation Learning For Emotional Artificial Intelligence • Dr. Sriram Ganapathy	Spoken Language Identification Techniques for Indian Languages • Dr. Dileep A D	Snacks Interval	
04:30 p.m -05:00 p.m	Refreshment Break	Snacks interval		Valedictory Function
05:00 p.m -06:00 p.m	Assistive speech technologies • Dr. P Vijayalaxmi	Securing the Audio Domain: Cyber Threats and Effective Mitigation Strategies • Dr. Arun Sankar M S	Poster Presentation by Research Scholars (04:30 p.m onwards)	
06:00 p.m onwards	Ideas & Appetites	Cultural Night		HI Tea

PATRONS

- Er. K. Satyanarayana, President
- Er. K. L. Havish, Vice-President
- Er. K. Raja Hareen, Vice-President

CO-PATRONS

- Dr K S Jaganatha Rao, Pro Chancellor
- Dr.G.P. Saradhi Varma, Vice Chancellor
- Dr.N. Venkatram, Pro Vice-Chancellor
- Dr A V S Prasad, Pro-Vice Chancellor
- Dr K Rajasekhara RaO Pro-Vice Chancellor
- Dr. K Subba Rao, Registrar
- Dr. T K Rama Krishna Rao Principal, CoE

ADVISORY COMMITTEE

- Dr. B.T.P. Madhav, Additional Dean R&D
- Prof. Hari Kiran Vege, Additional Dean Academics
- Dr. Buchi N. Nalluri, Director R&D, Funded Projects & Consultancy
- Dr. G Pradeepini, RPAC Chair, CSE
- Dr. V. Viswanath Shenoi, HoD, IR&D
- Dr. Senthil, HoD, CSE (Honours-1)
- Dr. T. Pavan Kumar, HoD, CSE (Honours-2)
- Dr. V. S. V. Prabhakar, HoD, CSE (Regular)
- Dr. Tirapathi Reddy B, HoD, AI&DS
- Dr. Amarendra K, HoD, CS&IT

CONVENORS

- Dr. Suryakanth V Gangashetty CSE
- Dr. Samudravijaya K CSE
- Dr. Govind D CSE
- Dr. Akhilesh Kumar Dubey CSE

FOR REGISTRATION

