4th INTERNATIONAL CONFERENCE ON
ARTIFICIAL INTELLIGENCE AND SPEECH TECHNOLOGY 2022

9th - 10th December, 2022

INTERNATIONAL CONFERENCE
AIST 2022

After the grand success of three versions of International Conference on Artificial Intelligence and Speech Technology (AIST2019, AIST2020 and AIST2021), Indira Gandhi Delhi Technical University for Women, Delhi is all set to host its fourth version i.e. 4th International Conference on Artificial Intelligence and Speech Technology (AIST2022) on 9-10th December, 2022 at IGDTUW Campus, Delhi. Last three Conferences witnessed a number of Expert Researchers, Academicians and Industry Practitioners in AI and Speech Domain from premier Institutions in India and abroad including Japan, Australia, France, Germany, Hungary, Czech Republic, Myanmar, Uzbekistan, Austria, Vietnam and others.

Thanks to Artificial Intelligence (AI), Machine Learning(ML), Natural Language Processing (NLP) and Speech Technology, which are enabling the development of Virtual Assistants in user-facing applications and working in the background to automate workflows. AI driven solutions like speech recognition systems are more accurate and efficient and makes it easier to identify and understand the components of natural language. These models can be used for voice recognition services, making an NLP service well-rounded and more efficient for various domain including medical (e.g. speech impaired people), forensics and academics and others.

IMPORTANT DATES:

PAPER SUBMISSION: 25TH JULY,2022

NOTIFICATIONS: 30TH SEP,2022

CAMERA-READY VERSION: 31ST OCT, 2022

CONFERENCE DATES: 9TH-10TH DEC,2022

TECHNICALLY SUPPORTED BY:

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All accepted and presented papers of the conference by duly registered authors will be submitted to IEEE Xplore for Publication.

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PAPERS ARE INVITED IN THE FOLLOWING TRAKCS:

TRACK 1 - MACHINE INTELLIGENCE

TRACK 2 - COMPUTER VISION AND AI

TRACK 3 - NLP AND AI

TRACK 4 - SPOKEN LANGUAGE PROCESSING

TRACK 5 - SPEECH RECOGNITION

TRACK 6 - TRENDS AND APPLICATIONS IN SPEECH TECHNOLOGY

TUTORIAL SESSION

HANDS-ON SESSIONS BY RENOWNED RESEARCHERS

TOOLS AND TECHNIQUES FOR SPEECH PROCESSING AND DATABASE DEVELOPMENT

DEEP LEARNING AND MACHINE LEARNING MODELS FOR NLP AND SPEECH

PAPER SUBMISSION LINK: **https://easychair.org/account/signin?l=OV3LrcMzD0Ik9qqQJ11hpU**

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Indira Gandhi Delhi Technical University for Women (IGDTUW) was established by the Govt. NCT of Delhi in May, 2013 vide Delhi Act 09 of 2012, as a non-affiliating University to facilitate and promote studies, research, technology, innovation, incubation and extension work in emerging areas of professional education among women, with focus on engineering, technology, applied sciences, architecture and its allied areas with the objective to achieve excellence in these and related fields.

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TRACKS

MACHINE INTELLIGENCE
- Computational Theories of Learning
- Neuro-informatics
- Cognitive Science
- Supervised /Unsupervised learning
- Convolution Neural Network
- Recurrent Neural Network
- Generative Adverse Network
- Applications of ML and Deep Learning
- Robotics
- Cyber Security
- Internet of Things
- Federated learning: the next generation machine learning for regulated domains- Healthcare, Agriculture and Banking

COMPUTER VISION AND AI
- Applications for Multimodal and Multimedia Processing
- Intelligent Robots and Human-Robot Interaction
- Computer Vision and Speech Recognition
- Compressed Sensing (for Speech and/or Image Processing)
- image Processing
- Pattern Recognition
- Face Recognition / AI

NLP AND AI
- Multimodal Information Retrieval
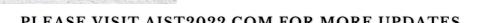- Multivariate Information Analysis
- Natural Language Processing based tools and Applications
- Text extraction and Topic classification
- Name Entity Processing
- Sentiment analysis
- Chatbots

SPOKEN LANGUAGE PROCESSING
- Speech-to-Speech Translation
- Spoken Dialogue Systems
- Spoken Language Recognition and Understanding
- Speech and Language Resources – Data Collection, Transcription and Annotation
- Computational Resource Constrained Speech

SPEECH RECOGNITION-SIGNAL
- PROCESSING, ACOUSTIC MODELLING, LANGUAGE MODELLING
- Speech Analysis, Representation and Models
- Speech Enhancement
- Text to speech synthesis
- Affective Speech Recognition, Interpretation and Synthesis
- Generate Audio fingerprints
- Automated music tags

TRENDS AND APPLICATIONS IN SPEECH TECHNOLOGY
- Forensic Speech Investigations and Security Systems
- Speaker Recognition in Biometric Systems and Security
- Speech Interface Design and Human Factors Engineering
- Human Computer Interaction
- Assistive Technologies
- Applications of Modelling, Simulation and Verification in Automotive

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