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2nd INTERNATIONAL CONFERENCE ON ARTIFICIAL INTELLIGENCE AND SPEECH TECHNOLOGY

(AIST-2020)

19th-20th November, 2020

Inauguration Schedule

Time	Activity
09:30 AM – 09:35 AM	Welcome of the Guests
09:35 AM – 09:40 AM	Saraswati Vandana and Lighting of Lamp
09:40 AM – 09:50 AM	Welcome Address by Dr Amita Dev, General Chair-AIST2020 and VC, IGDTUW
09:50 AM – 10:00 AM	Conference Report by Dr S S Agrawal, Technical Program Chair, AIST2020
10:00 AM – 10:10 AM	Address by Chief Guest – Prof. V Ramgopal Rao, Director, IIT Delhi
10:10 AM – 10:12AM	Release of Conference Souvenir
10:12 AM – 10:15 AM	Vote of Thanks by Prof Arun Sharma, Conference Secretary-AIST2020
10:15 AM – 10:30 AM	University at a Glance



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Master Program Schedule

Day 1 (19th November, 2020)

Time	Activity
9:30 AM - 10:30 AM	Inauguration
10:30 AM - 11:15 AM	Invited Talk 1 (Prof. S. Nakamura (NAIST, Japan) Session Chair: Prof S S Agrawal, Emeritus Scientist, CSIR
11:15 AM - 12:00 Noon	Invited Talk 2 (Dr Manish Bhide, Chief Solution Architect, IBM Watson) Session Chair: Prof. Arun Sharma, IGDTUW
12:00 AM - 01:30 PM	Technical Session 1 (Paper Presentation): Prof. Samudra Vijay, IIT Guwahati
01:30 PM - 02:30 PM	Lunch
02:30 PM – 03:15 PM	Invited Talk 3 (Prof Nemeth Geza, Budapest Univ. of Technology and Economics, Hungary), Session Chair: Dr. Amita Dev, VC, IGDTUW
03:15 PM – 04:45 PM	Technical Session 2 and 3 (Parallel Paper Presentation) Session Chair: Prof. Anand Nayyar, Duy Tan University, Da Nang, Vietnam Session Chair: Dr Swaran Lata, Former Sr. Director and Head, TDIL, DeitY

Day 2 (20th November, 2020)

Time	Activity
09:45 AM - 10:15 AM	Invited Talk 4 (Prof Win Pa Pa, NLP Lab, UCSY, Myanmar), Session Chair: Dr. Karunesh Arora, CDAC
10:15 AM - 11:00 AM	Invited Talk 5 (Prof. Umesh S, IIT Madras), Session Chair: Dr P K Saxena, Pr. Scientific Advisor – Fellow, GoI
11:00 AM - 12:30 PM	Technical Session 4 (Paper Presentation), Session Chair: Prof. Ashish Seth, Inha University, Tashkent (Uzb)
12:30 PM – 01:30 PM	Lunch Session
01:30 PM – 02:45 PM	Technical Session 5 (Paper Presentation) Session Chair (s): Dr Anu Khosla, Director, Scientific Analysis Group, DRDO (GoI), Dr. Priyanka Chawla, LPU
02:45 PM - 03:30 PM	Invited Talk 6 (Dr. Milan Stehlik, Johannes Kepler University, Austria) Session Chair: Prof. Nidhi Goel, IGDTUW
03:45 PM - 04:45 PM	Technical Session 6 (Paper Presentation), Session Chair: Dr S K Jain, Chief Forensic Scientist, Min. of Home Affairs, GoI and Dr Ihtiram Khan, Jamia Hamdard
04:45 PM – 05:15 PM	Valedictory Session



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Technical Session: 01

Date and Time: 19/11/2020, 12:00 AM - 01:30 PM

S. No	Paperid	Authors	Title
1	20	Amritpreet Kaur, Rohit Sachdeva and Amitoj Singh	Classification Approaches For Automatic Recognition System
2	32	Pratik Wagh, Megha Panjwani and Amrutha S	Early Detection of PCOD using Machine Learning Techniques
3	36	Neha Sharma, Reetvik Chatterjee, Akhil Bisht and Harit Yadav	Application of Real-Time Object Detection Techniques for Bird Detection
4	37	Rajesh Nagaraja and Chandrasekar Shastry	Machine Learning Algorithms used for Detection of Prostate Cancer
5	51	Veenu	How Training of sigmoidal FFANN effected by weight initialization
6	60	Parita Jain, Anupam, Puneet Kumar Aggarwal, Kshirja Makar, Vineet Shrivastav, Seema Maitrey	Machine Learning for Web Development: A Fusion
7	64	Sanjay Madan, Shivani Arya, Divya Bansal, Sanjeev Sofat	Bot Attack Detection using various Machine Learning Algorithms
8	110	Surbhi Khurana, Amita Dev	Present scenario of emotions based speech systems in India



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Technical Session: 02

Date and Time: 19/11/2020, 03:15 PM – 04:45 PM

S No	Paperid	Authors	Title
1	18	Monika Parmar, Harsimran Jit Kaur and Rinku Saini	Blockchain Based Secured Data transmission of IoT Sensors using ThingSpeak
2	22	Ravi Choudhary, J N Rai and Yogendra Arya	Impact of Energy storage device on the performance of AGC using ALO tuned PID controller
3	24	Shweta Singh and Arun Kumar Tripathi	The Instrument to Measure Happiness at workplace
4	30	Tanishqa Chaudhary, Kshitija Patil, Abhishek Katore, Mohandas Pawar, Sagar Jaikar	IoT Based Smart Cyber Sealing System
5	33	Vanyaa Gupta, Neha Bansal, Arun Sharma, Kaustubh Mani	A Novel Approach For Summarizing Legal Judgements Using Graph
6	39	M. Nagaraju and Priyanka Chawla	Deep CNN Architectures for Learning Image Classification: A Systematic Review, Taxonomy and Open Challenges
7	59	Pushpikka Udawat, Jogendra Singh and G.S. Ameta	The Quest for crop improvement in the era of artificial intelligence, machine learning and other cognitive sciences
8	111	Pooja Gambhir, Amita Dev	A run-through: Text independent Speaker Identification using Deep Learning



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Technical Session: 03

Date and Time: 19/11/2020, 03:15 PM – 04:45 PM

Sr. No.	Paperid	Authors	Title
1	6	Ashwin Siddharth, Yogesh B R, Rutwik B and Jayashree Rangareddy	Summarisation of Video Lectures
2	28	Mudit Saxena and M. Gangadharappa	Artificial Intelligence Approach in Video Summarization
3	31	Basanta Kumar Swain, Sanghamitra Mohanty and Dillip Ranjan Nayak	Extractive Summarization of Recorded Odia Spoken Feedback
4	67	Ms. Alina Banerjee, Ravindar M and Ela Kumar	Frame Change Detection in Videos – Challenges and Research Directions
5	72	Renuka Arora, Sunny Arora	Speech Impairment Recognition using XG Boost Classifier
6	97	Jaspreet Kaur Sandhu, Amitoj Singh	Research Insight of Indian Tonal Languages: A Review
7	99	Mohammed Salah Al-Radhi, Tamás Gábor Csapó, and Géza Németh	Advances in Speech Vocoding for Text-to-Speech with Continuous Parameters
8	100	J Betina Antony, N R Rejin Paul and G. S. Mahalakshmi	Applying Entity Recognition and Verb Role Labelling for Information Extraction of Tamil Biomedicine
9	104	Joyanta Basu, Theodore Raphael Hrangkhawl, Tapan Kumar Basu , Swanirbhar Majumder	Identification of Two Tribal Languages of India: An Experimental Study



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Technical Session: 04

Date and Time: 20/11/2020, 11:00 AM – 12:30 PM

S. No	Paperid	Authors	Title
1	17	Ritu Garg and Om Prakash Sangwan	Hybrid Classifier for Brain Tumor Detection and Classification
2	27	Rituparna Ghosh	Parametric Study of Through Transmission Laser Welding with Teaching Learning Based Optimization
3	63	Mandeep Kaur, Rekha AG & Resmi AG	Research Landscape of Artificial Intelligence in Human Resource Management: A Bibliometric Overview
4	66	Puja Priya, Dr.Gurjit kaur, Rajesh Kumar	An efficient Class F PA with SSL/SIL based matching network for Body Centric Wireless Transceiver
5	68	Harsha Deivalakshmi Thirunavukkarasu, Vriti Sachdeva, Ar. Kshitij Kumar Sinha	Envisaging the future homes with 'Human-Building Interaction'
6	75	Nitin Yadav, Satinder Bal Gupta, Raj Kumar Yadav	Comparative Analysis of First Order Optimization Algorithms
7	83	Pradeep Kumar Juneja, Neha Belwal, Sandeep Kumar Sunori, Farha Khan, Abhinav Sharma, Gaurav Pundhir	A Review on Application of Artificial Intelligence Techniques in Control of Industrial Processes
8	89	B. Balaji Bhanu, Mohammed Ali Hussain, Mahmood Ali Mirza	Crop Monitoring System for Effective Prediction of Agricultural Analytics in Indian Agriculture using WSN
9	109	Rashmi_Kumaria.Nitwane, V. D. Bhagile, R. R. Deshmukh	Trend Analysis of Meteorological Index SPI Using Statistical And Machine Learning Models Over the Region of Marathwada.



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Technical Session: 05

Date and Time: 20/11/2020, 02:15 PM - 03:30 PM

S. No	Paperid	Authors	Title
1	58	Pramod Singh, Rekha Aggarwal	An insight into Reconfigurable Antenna Design
2	65	Sunita Kumari Chauraisa, S.R.N Reddy	Optimized Xgboost Algorithm using Agglomerative Clustering for Effective User Context Identification
3	70	Youddha Beer Singh, Shivani Goel	1D CNN Based Approach for Speech Emotion Recognition using MFCC Features
4	71	Mahima Kataria, Prashansa Gupta, Shivani Singh, Vani Bansal, Ravinder. M	Review on Text Detection and Recognition in Images
5	74	Kanika Gupta, Arun Sharma, A.K. Mohapatra	Comparative Analysis of Machine Learning Algorithms on Gender Classification using Hindi Speech Data
6	80	Usha Mittal, Sayantan Kar, Priyanka Chawla	COVID-19 detection through Mamdani- Based Fuzzy Inference System
7	82	Shalini Garg, Aarti Sehgal, Snehlata Sangawan	Assistive Technology is a Boon or Bane: A Case of Persons with Disabilities
8	86	Pushpanjali Kumari, S R N Reddy, Professor, Richa Yadav	Sensor Data Fusion Using Machine Learning Techniques in Indoor Occupancy Detection
9	96	Neelam Rawat, Prashant Agrawal, Arun Kumar Tripathi, Yashpal Singh	Covid'19 virus life progress span by using Machine Learning Algorithms and Time Series Methods



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Technical Session: 06

Date and Time: 20/11/2020, 03:30 PM – 04:45 PM

S.No.	Paperid	Authors	Title
1	25	Laxmi Ahuja, Ajay Rana, Prina Todi	Security and Vulnerability Issues in NoSQL
2	61	Ms. Divanshi Priyadarshni Wangoo, S.R.N Reddy	Artificial Intelligence Applications and Techniques in Interactive and Adaptive Smart Learning Environments
3	73	Pankaj Kumar and Sanjib Kumar Sahu	SIM-BERT: Speech Intelligence model using NLP-BERT with improved accuracy
4	81	Manisha Yadav, Lavisha Malik, Lavanya Gaur, Disha Goyal, Ravinder M.	A Literature Review on Virtual Assistant for Visually Impaired
5	92	Rajni Sharma, C.S. Lamba, V.S. Rathore	Congestion Control Mechanisms To Avoid Congestion In VANET: A Comparative Review
6	98	Ravi Yadav, Rajkumar Yadav and Satinder Bal Gupta	Comparative Study of Various Stable and Unstable Sorting Algorithms
7	103	Kanu Goel and Shalini Batra	Prediction Analysis of Forecasting Applications with Concept Drifting Distributions
8	108	Muneer. VK, Ramseena N., Rizwana Kallooravi Thandil, Mohamed Basheer KP	A Hybrid Cardiovascular Disease Prediction System Using Machine Learning Algorithms