

Frontiers of Research on Speech and Music (FRSM-2012)

The 22nd annual international symposium “Frontiers of Research on Speech and Music” (FRSM 2012) was jointly organized by ITC Sangeet Research Academy (Kolkata), KIIT College of Engineering (Gurgaon), North Orissa University (Baripada, Orissa), All India Institute of Speech and Hearing (Mysore) and Sir C V Raman Centre for Physics & Music (Jadavpur University, Kolkata).

The symposium was held during 18-20 January, 2012 and the venue was KIIT College of Engineering, Gurgaon (Host Institution). This year the theme of the symposium was “*Multilingual and Multimedia Technologies for Smart Communication & Cognition of Music and Speech including Language*”.

The objective of the effort is to encourage researchers in the field of physics, mathematics, artificial intelligence, psychology, neuro-sciences, musicology, linguistics etc to provide new ideas and directions in the objective research in speech and music.

The topics included Speech Analysis, Synthesis & Perception, Coding /Decoding & Enhancement, Acoustic Phonetics, Spoken Language Processing, Phonetic/Phonological Systems for Indian Languages, Speech Prosody & Labeling, Speech Processing Models & Systems, Music Modeling, Acoustics, Recognition, Analysis, Synthesis, Retrieval, Structure analysis, Transcription, Production & Composition tools & Psychology, Artificial intelligence, Sound source separation, Semantic music technologies, Music & sound data mining, Comparison, Classification & modelling of sound and music, Structuring of audio data, New methods for music representation and visualization, Digital music libraries, Virtual reality, Augmented reality and human-computer interaction, Auditory perception and cognition, Creativity, Emotion, Music therapy and Signal Processing & applications

The event was inaugurated by Prof. (Dr.) S. V. Raghavan, Scientific Secretary, Office of the Principal Scientific Adviser to the Government of India. The welcome addresses were delivered by Dr. S S Agrawal, D. G., KIIT Group of Colleges and Mr. Ravi Mathur, Executive Director, ITC Sangeet Research Academy, Kolkata. The address of the Guest of Honour was delivered by Dr. P. K. Saxena, Director, Scientific Analysis Group, Defence Research & Development Organisation. The objective of the symposium was narrated by Prof. A K Datta, Chairman, Organising Committee, FRSM 2012. The vote of thanks was given by Prof. V. K. Syal, Principal, KIIT College of Engineering.

There were four Special Sessions held comprising of two Keynote Addresses by Prof. Hiroya Fujisaki, University of Tokyo, Japan and Prof. Xavier Serra, University of Pompeu, Spain and eight Invited Talks delivered by Prof. S R Savithri, Director, AIISH, Mysore, Dr. V.N.Shukla, Director, NLP Group, CDAC Noida, Dr. Anupam Shukla, IITM, Gwalior, Dr. Hideki Kashioka, NICT, Japan, Prof. Sangmitra Mohanty, VC, North Orissa University, Baripada, Orissa, Prof. Keikichi Hirose, Tokyo University, Japan, Dr. K Samudravijay, TIFR, Mumbai and Dr. Punita Singh, Sound Sense, New Delhi.

In the nine technical sessions including one poster session total 73 contributory papers were presented. The last day was dedicated for a workshop on Computer Music in which, among others, Prof. Preeti Rao, IIT Mumbai, Prof. Hema Murthy, IIT Chennai and Pandit Buddhadeb Dasgupta, ITC SRA, delivered speech. On the evening of the 1st day, a cultural programme was organized in which our scholar, Sri Kaustuv Kanti Ganguly, performed.

In the valedictory session, a panel discussion was made under the chairmanship of Prof. S. S. Agrawal of KIIT. He did the summing-up for the proceedings of the symposium and thanked the participants for stimulating and lively interactions during the symposium.