

About WiSSAP

WiSSAP-Winter School on Speech and Audio Processing provides a forum for students, researchers and professionals to enhance their background and get exposed to intricate research areas in the field of speech and audio signal processing. The school constitutes of a theme topic and tutorials surrounding it. WiSSAP 2016, scheduled between 8th and 11th January, 2016, and organized by the Department of Information Technology, SSNCE, is the eleventh in the series, following the very successful earlier ten winter schools: WiSSAP 2006 to WiSSAP 2015 focusing on different topics in speech and audio processing.

WiSSAP 2016

Prosody is the information contained in speech that goes beyond spoken words. Apart from its important communicative functions, it conveys the emotions of the speaker and also reflects the fluency of the speaker in a particular language. WiSSAP 2016 will focus on three aspects of prosody. The first of these is prosody modelling, which may be done by formulating a set of rules, considering the linguistic phonology or phonetics, or by using a statistical approach to model features related to the duration and pitch attributes, extracted from a speech corpus. Next, the use of prosodic features to enhance the performance of a speech recognition system and the use of prosodic models to incorporate appropriate prosody in synthesized speech will be detailed. Finally, the role of prosody in multimodal speech processing will be discussed.

Registration Fee

| | ISCA/IEEE Members* | Others |
|-----------------------|--------------------|-----------|
| Students** | Rs. 2700 | Rs. 3000 |
| Academic Faculty | Rs. 5500 | Rs. 6000 |
| Industry Participants | Rs. 9500 | Rs. 10000 |

* Must indicate membership number and validity
** Students must submit a copy of valid student ID card

Last date for registration is Dec. 31, 2015.

Registration form and payment details are available online.

Invited Speakers



Prof. Marc Swerts is a Professor in the Department of Communication and Information Science at Tilburg University, The Netherlands. He has served on the editorial board of three major journals in the field of language and speech research, and has been the editor-in-chief of Speech Communication. He was also elected as an ISCA fellow in 2015. His scientific focus is on getting a better understanding of how speakers exploit nonverbal features to exchange information with their addressees. He is particularly interested in the interplay between prosodic characteristics, facial expressions and gestures to signal socially and linguistically relevant information.



Prof. Mark Hasegawa-Johnson is a Professor of Electrical and Computer Engineering at the University of Illinois (Urbana-Champaign), and a Fellow of the Acoustical Society of America. He is currently Treasurer of ISCA, Secretary of SProSIG, and a member of the IEEE SLTC. His primary research areas are in the application of phonological concepts to audio and audiovisual speech recognition and synthesis (Landmark-Based and Prosody-Dependent Speech Recognition), in the application of semi-supervised and interactive machine learning methods to multimedia browsing and search (Multimedia Analytics), and in the use of Probabilistic Transcription to develop massively multilingual speech technology localized to under-resourced dialects and languages.



Prof. Yi Xu is a Professor of Speech Sciences, Dept. of Speech, Hearing & Phonetic Sciences, University College London. He is on the editorial board of Phonetica, a board member and Liason Officer of SProSIG, and a member of Acoustical Society of America, Linguistic Society of America, ISCA, and International Phonetic Association. His research interests include emotions in speech, modelling and synthesis of speech prosody, modelling speech prosody based on communicative functions and articulatory dynamics, and speech production mechanisms.

Programme Schedule

| Time | Jan. 8 th | Jan. 9 th | Jan. 10 th | Jan. 11 th |
|---------------|----------------------|-----------------------|-----------------------|-----------------------|
| 8:30 – 9:00 | Hema A. Murthy | Mark Hasegawa-Johnson | Yi Xu | Marc Swerts |
| 9:00 – 10:00 | Preeti Rao | | | |
| 10:30 - 12:00 | Kalika Bali | Yi Xu | Marc Swerts | Mark Hasegawa-Johnson |
| 13:30 - 15:00 | Yi Xu | Marc Swerts | Mark Hasegawa-Johnson | Priyankoo Sarmah |
| 15:30 - 17:00 | V. Ramasubramanian | Yi Xu | Marc Swerts | Mark Hasegawa-Johnson |

Breakfast – 7:00 – 8:15, Tea Break – 10:00 – 10:30, 15:00 – 15:30, Lunch – 12:00 – 13:30 & Dinner – 19:30 onwards

Programme Committee

- T. V. Sreenivas, Professor, IISc Bangalore
- Hema A. Murthy, Professor, IIT Madras
- Preeti Rao, Professor, IIT Bombay
- K. Samudravijaya, Scientific Officer, TIFR Mumbai
- S. Umesh, Professor, IIT Madras
- C. Chandra Sekhar, Professor, IIT Madras
- A. G. Ramakrishnan, Professor and Chairman (EE), IISc Bangalore
- Arun Kumar, Professor, IIT Delhi
- V. Ramasubramanian, Professor, PESIT Bangalore
- S. R. M. Prasanna, Professor, IIT Guwahati
- K. Sreenivasa Rao, Associate Professor, IIT Kharagpur
- Chandra Sekhar Seelamantula, Associate Professor, IISc Bangalore
- Kishore S. Prahallad, Associate Professor, IIIT Hyderabad
- Rajesh M. Hedge, Associate Professor, IIT Kanpur
- Rohit Sinha, Professor, IIT Guwahati
- Prasanta Kumar Ghosh, Assistant Professor, IISc Bangalore

Organizing Committee

- Hema A. Murthy, Professor, IIT Madras
- T. Nagarajan, Professor & Head (IT), SSNCE, Chennai
- P. Vijayalakshmi, Professor, SSNCE, Chennai
- A. Shahina, Professor, SSNCE, Chennai

Contact Information

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url: <http://www.ssn.edu.in/wissap2016/wissap2016/index.html>

For queries contact:
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Accommodation Details: Participants may avail accommodation in the institute hostels. The registration fee does not include accommodation charges. More details are available online.

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