

Winter School on Speech and Audio Processing (WiSSAP) 2019

Venue

27th-29th January, 2019

College of Engineering Trivandrum (CET)

Kerala, India

Theme

Deep dive into brain and machine perception: Bridging the gap in speech processing

With the advent of techniques to capture sensory signals associated with speech cognition and computational approaches to analyze these signals, curiosity to strengthen our understanding of human speech processing has increased. In this WiSSAP, we will meet to dive deeper into these and related topics, and identify how the insights can aid in design of machine systems for robust speech processing.

Focus

- speech perception and learning
- role of attention in listening
- deep learning and state-of-the-art in machine speech perception
- drawing connections between human and machine perception

Programme

- Invited talks
- Tutorials
- Research Scholars' Symposium
- Panel Discussions

Three day school will see participation from researchers working in academia and industry, analyzing speech cognition via experimentation on the human brain and building state-of-the-art speech recognition systems.

Invited Speakers



Dr. Ratnavalli Ellajosyula, Manipal Hospital & Annasawmy Mudaliar General Hospital|
Bilingualism and dementia: The vulnerable second language



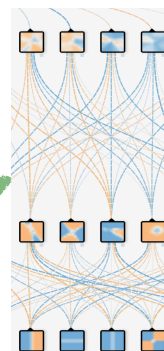
Dr. Lori L. Holt, Carnegie Mellon University, Pittsburgh|
Understanding how humans interpret the complexity of spoken language



Dr. V. Ramasubramanian, IIT Bangalore|
Deep Learning: The biology and mathematics beneath



Dr. Jithendra Vepa, Observe AI, Bangalore|
ASR system design



Dr. Deepu Vijayaseenan, NIT Surathkal, Karnataka|
Speaker diarization and speech recognition system design



Dr. Chandra S Seelamantula, IISc Bangalore|
Learning to do sparse coding



Dr. Tijman Tieleman, minds.ai|
Getting creative with autoencoders



Dr. Barbara Shinn-Cunningham, Carnegie Mellon University, Pittsburgh|
Role of attention mechanisms in listening



Dr. Rajakrishnan Rajkumar, IISER Bhopal|
Eye movements in the perception of Indian languages



Online Registration Open.
Limited Seats.

<https://wissap.github.io/2019/>

Program Committee

T. V. Sreenivas | IISc, Bangalore
Chandra Sekhar Seelamantula | IISc, Bangalore
Padmanabhan Rajan | IIT Mandi

Suresh Kumaraswamy | CET, Kerala
Sriram Ganapathy | IISc, Bangalore
Neeraj Sharma | CMU, Pittsburgh
Prasanta Kumar Ghosh | IISc, Bangalore