

Schedule

May 19

Arrival in Sendai

14:00 –

Check-in at Daiwa Roynet Hotel

<http://www.daiwaroynet.jp/english/sendai/>

Free time

May 20

08:30

Bus from Daiwa Roynet Hotel to Tohoku University

09:00 – 10:00

Laboratory tour (optional)

<http://www.ais.riec.tohoku.ac.jp/>

10:30

Bus from Tohoku University to Miyagi Zao Royal Hotel

<http://www.daiwaresort.jp/en/zaou/>

11:30 – 12:00

Arrival and check-in at Miyagi Zao Royal Hotel

12:00 – 13:00

Lunch

13:00 – 13:10

Opening

13:10 – 14:50

Spatial sound perception & technology I

13:10 ALTINSOY, Ercan (Dresden University of Technology)

13:50 OODE, Satoshi (NHK)

14:10 OMOTO, Akira (Kyushu University)

14:30 IWAYA, Yukio (Tohoku Gakuin University)

14:50 – 15:10

Break

15:10 – 16:50

Spatial sound perception & technology II

15:10 JIN, Craig (The University of Sydney)

15:50 FAZI, Filippo (University of Southampton)

16:30 OTANI, Makoto (Kyoto University)

- 16:50 – 18:00** **Discussion time**
- 17:00 PI meeting (Yonghong Yan, Nam Soo Kim, Masato Akagi, Yôiti Suzuki, Akinori Ito)
- 17:00 Faculty meeting (Jing Wang, Kai Qiao, Seong Cheol Kim, Masashi Unoki, Daisuke Morikawa, Takashi Nose, Shuichi Sakamoto)
- 17:00 Student discussion (Kisoo Kwon, Joun Yeop Lee, Won Ik Cho, Ji Won Choi, Joo Hyun Park, Hideto Aichi, Sho Saito, Yuji Saito, Yuki Tamura, Miharuru Noda)
- 18:00 – 19:00** **Dinner**
- 19:30 –** **Special session**
- 19:30 LI, Junfeng (Chinese Academy of Sciences)
- 19:50 KITAMURA, Yoshifumi (Tohoku University)

May 21

Breakfast

- 09:00 – 10:40** **Speech & music signal processing I**
- 09:00 HOFFMANN, Ruediger (Dresden University of Technology)
- 09:40 BIRKHOLZ, Peter (Dresden University of Technology)
- 10:20 KONDO, Kazuhiro (Yamagata University)
- 10:40 – 12:00** **Poster session**
- 12:00 – 13:00** **Lunch**
- 13:00 – 14:40** **Speech & music signal processing II**
- 13:00 ZIOLKO, Bartosz (AGH University of Science and Technology)
- 13:40 KITAMURA, Tatsuya (Konan University)
- 14:00 SUZUKI, Motoyuki (Osaka Institute of Technology)
- 14:20 LEE, Seokjin (Kyonggi University)
- 14:40 – 15:00** **Closing**

- 15:00** **Bus from Miyagi Zao Royal Hotel to:**
- 1. Sendai Station**
 - 2. Sendai Airport and Tohoku University**

Presentation list

Keynotes

1. **Ercan Altinsoy**, "The role of the spatial audio on the plausible multimodal scene generation: From wave field synthesis to audio induced vibration reproduction"
2. **Craig Jin**, "Consideration of High-Fidelity Spatial Audio Systems: Loudspeaker Arrays and Headphones"
3. **Filippo Fazi**, "Loudspeaker arrays for sound reproduction"
4. **Ruediger Hoffmann**, "Roots of articulatory speech synthesis in history"
5. **Peter Birkholz**, "Recent progress in articulatory speech synthesis"
6. **Bartosz Ziolk** and **Magdalena Igras**, "Speech segmentation and quasi-linguistic information in speech processing"

Invited talks

1. **Satoshi Oode**, "Measurement of spatial impressions and types of emotion evoked by sound"
2. **Yuto Saito** and **Akira Omoto**, "Introduction of amplitude panning into physically assured sound field reproduction system"
3. **Yukio Iwaya**, **Shoya Yarimizu**, **Makoto Otani**, **Takao Tsuchiya** and **Junfeng Li**, "Discrimination of sound fields different in spatial aliasing"
4. **Makoto Otani**, **Yuki Fujii**, **Hikaru Watanabe**, **Takao Tsuchiya** and **Yukio Iwaya**, "Physical and perceptual effects of spatial aliasing in sound field reproduction"
5. **Junfeng Li**, **Risheng Xia**, **Yôiti Suzuki** and **Yonghong Yan**, "3D sound technologies for future interactive communications over the internet"
6. **Yoshifumi Kitamura**, "Reactive interiors: designing multimodal aware spaces"
7. **Kazuhiro Kondo**, "Recent advances in the estimation of speech intelligibility using objective measures"
8. **Tatsuya Kitamura**, "Effects of emotions on configuration of the speech articulators"
9. **Motoyuki Suzuki**, "Lyrics recognition from singing voice dealing with insertion error"
10. **Seokjin Lee**, "Estimation of number of bases for nonnegative matrix factorization in automatic music transcription applications"

Posters

1. **Jing Liu and Xiang Xie, "Satisfaction analysis based on emotion recognition in call centers"**
2. **Yukiko Kageyama, Yuya Chiba, Takashi Nose and Akinori Ito, "Evaluation of dialogue strategies for non-task-oriented dialogue using MMDAgent"**
3. **Zhi Zhu, Ryota Miyauchi, Yukiko Araki and Masashi Unoki, "Modulation spectral features for predicting vocal emotion recognition by noise-vocoded speech"**
4. **Yawen Xue, Yasuhiro Hamada and Masato Akagi, "A method for synthesizing emotional speech using the three-layered model based on a dimensional approach"**
5. **Kouki Hongo, Takashi Nose and Akinori Ito, "Singing voice synthesis using hybrid approach with HSMM and DNN"**
6. **Yongwei Li and Masato Akagi, "A method for estimating glottal source waves of emotional speech using ARX-LF model"**
7. **Shuhei Yamada, Takashi Nose and Akinori Ito, "Speech corpus design for conversational speech synthesizer"**
8. **Li Wang, Fuping Pan and Yonghong Yan, "Automatic scoring of English spoken question-answer testing"**
9. **Hafiyah Prafianto, Takashi Nose and Akinori Ito, "Improvement on precise evaluation of prosody by human evaluators using prosody substitution"**
10. **Xingfeng Li and Masato Akagi, "Multilingual speech emotion recognition based on a three-layer model"**
11. **Harunori Koike, Takashi Nose, Takahiro Shinozaki and Akinori Ito, "The effect of accuracy of DTW on the performance of voice conversion"**
12. **Tae Gyoon Kang and Nam Soo Kim, "DNN-based voice activity detection with multi-task learning"**
13. **Anh-Tuan Dinh and Masato Akagi, "Quality improvement of HMM-based synthesized speech based on decomposition of naturalness and intelligibility using non-negative matrix factorization"**
14. **Il-Young Jeong and Kyogu Lee, "DNN-based temporal feature learning for music genre classification"**
15. **Takahiro Furuya, Emika Takeishi, Yusuke Yamada, Takashi Nose and Akinori Ito, "Evaluation of speech recognition system using DNN-HMM"**
16. **Soo Hyun Bae and Nam Soo Kim, "Environmental sound classification using recurrent neural network with long short-term memory"**
17. **Yueyue Na, Yanmeng Guo, Qiang Fu and Yonghong Yan, "Cross array and rank-1 MUSIC algorithm for acoustic highway lane detection"**

18. **Kang Hyun Lee, Shin Jae Kang, Woo Hyun Kang and Nam Soo Kim, "Two-stage noise aware training using asymmetric deep denoising autoencoder"**
19. **Surasak Boonkla and Masashi Unoki, "Robust speech analysis based on source-filter model using multivariate empirical mode decomposition in noisy environments"**
20. **Hyungui Lim and Kyogu Lee, "Deep learning-based chord prediction from melodic sequence"**
21. **Jessada Karnjana and Masashi Unoki, "An SSA-based audio watermarking scheme with automatic frame detection"**
22. **Cesar Salvador, Shuichi Sakamoto, Jorge Trevino and Yôiti Suzuki, "Analytic filters for sound field recording with a rigid spherical microphone array"**
23. **Jorge Trevino, Sakamoto Shuichi and Yôiti Suzuki, "Recording extended sound fields using compact arrays and a-priori knowledge of sound source positions"**
24. **Taku Shimizu, Jorge Trevino, Shuichi Sakamoto, Yôiti Suzuki and Tomohiko Ise, "Multi-user sound field reproduction system including distance information"**
25. **Virgilijus Braciulis, Jorge Trevino, Cesar Salvador, Shuichi Sakamoto, Yôiti Suzuki, Kyoji Yoshikawa, Takashi Yamasaki and Ken'ichi Kidokoro, "Spatial sound source extraction using an array-of-arrays"**
26. **Hironori Sato, Arif Wicaksono, Shuichi Sakamoto, Cesar Salvador, Jorge Trevino and Yôiti Suzuki, "Signal compression for spherical microphone array recordings using eigenvalue decomposition"**
27. **Yukio Iwaya, Hikaru Kikuchi, Masaki Tsuchiya, Ozaki Yusuke and Akio Honda, "Detection threshold of pure tone during sound localization with head movement"**
28. **Shuhei Ito, Sakiko Tokoro, Yukio Iwaya, Makoto Otani and Takao Tsuchiya, "Effects of color information on perception of reverberation"**
29. **Sayaka Tsunokake, Akio Honda, Yôiti Suzuki and Shuichi Sakamoto, "Sound localization acuity at the subjective front during passive slow horizontal rotation"**
30. **Zhenglie Cui, Shuichi Sakamoto and Yôiti Suzuki, "The effect of vertical vection on vertical sound localization"**
31. **Ryo Teraoka and Wataru Teramoto, "Touch-contingent visual motion perception"**
32. **Hiroyuki Yagyu, Shuichi Sakamoto, Zhenglie Cui, Yôiti Suzuki and Jiro Gyoba, "Effects of vibration generated by auditory information on perceived sense of reality from multimodal contents"**