

## Human Interface Laboratory



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### Refereed Journal Papers

- [j-huang-01:2013] Thongam Khelchandra, Jie Huang, and Somen Debnath. Path Planning of Mobile Robot with Neuro-genetic-fuzzy Technique in Static Environment. *International Journal of Hybrid Intelligent Systems*, 11(2):71–80, jan 2014.
- 
- [markov-01:2013] T.Matsui K.Markov. High level feature extraction for the self-taught learning algorithm. *EURASIP Journal on Audio, Speech, and Music Processing*, 6:11, 2013.  
Springer Open Access journal
- [markov-02:2013] I.Kipyatkova D.Vazhenina A.Ronzhin A.Karpov, K.Markov. Large vocabulary Russian speech recognition using syntactico-statistical language modeling. *Speech Communication*, 56:213–228, 2014.  
Elsevier journal

### Refereed Proceeding Papers

- [j-huang-02:2013] K. Tanno, A. Saji, and J. Huang. A New 5-Loudspeaker 3D Sound System with a Reverberation Reconstruction Method. In *Proc. Int. Joint Conf. Awareness Sci. and Tech & Ubi-Media Computing*, pages 174–178, nov 2013.
- 
- [j-huang-03:2013] A. Saji, K. Tanno, and J. Huang. Improve vertical sweep-spot of 3D sound system by loudspeaker arrays. In *Proc. Int. Joint Conf. Awareness Sci. and Tech & Ubi-Media Computing*, pages 179–182, nov 2013.
- 
- [j-huang-04:2013] A. Saji, K. Tanno, A. Saji, and J. Huang. Improvement of 3-D sound system by vertical loudspeaker arrays. In *Proc. 135th AES Convention*, page no.8944. AES, oct 2013.
- 
- [markov-03:2013] T.Matsui K.Markov. Music Genre Classification using Gaussian Process Models. In *Proc. IEEE Int. Workshop on Machine Learning for Signal Processing*, page 6, September 2013.

## Summary of Achievement

IEEE Workshop

- [markov-04:2013] K.Markov D.Vazhenina. Factored Language Modeling for Russian LVCSR. In *Proc. International Joint Conference on Awareness Science and Technology & Ubi-Media Computing*, page 6, November 2013.

IEEE supported Conference

## Unrefereed Papers

- [markov-05:2013] T.Matsui K.Markov, T.Iwata. Music Emotion Recognition using Gaussian Processes. In *Proc. MediaEval'2013 Benchmark Workshop*, October 2013.

- [sugiyama-01:2013] M. Sugiyama. Integer Graph Assignment Problem. In IPSJ, editor, *Proc. of IPSJ*, pages 3C-2, Japan, Mar. 2014. IPSJ, IPSJ.

- [sugiyama-02:2013] M. Sugiyama. Integer Sequence to Graph Constant Sum Assignment Problem. In IPSJ Tohoku Chapter, editor, *2014 Tohoku Chapter Research Meeting*, pages 13-7-A2-4, Japan, Mar. 2014. IPSJ Tohoku Chapter, IPSJ Tohoku Chapter.

## Chapters in Book

- [markov-06:2013] K.Markov D.Vazhenina. *Evaluation of Advanced Language Modeling Techniques for Russian LVCSR*, volume 8113 2013 of *Lecture Notes in Computer Science*, pages 124-131. Springer, speech and computer edition, September 2013.

## Ph.D and Others Theses

- [j-huang-05:2013] Yusuke Taguchi. Elevation localization in the side areas related to level changes in different subbands, University of Aizu, 2013.

Thesis Advisor: Huang, J.

[j-huang-06:2013] Syunsuke Nogami. 3D sound filter design based on the data obtained from psychoacoustical experiments, University of Aizu, 2013.

Thesis Advisor: Huang, J.

[j-huang-07:2013] Taichi Kido. Effect of 3D sound localization for sound sources with visual information, University of Aizu, 2013.

Thesis Advisor: Huang, J.

[j-huang-08:2013] Takashi Inomata. Sound analysis by narrow subband instantaneous frequency compared with Fourier analysis, University of Aizu, 2013.

Thesis Advisor: Huang, J.

[j-huang-09:2013] Miyabi Hirano. Environmental sound generation by randomized frequency modulation in narrow subbands, University of Aizu, 2013.

Thesis Advisor: Huang, J.