Publication List of Shigeto Furukawa (updated 18 Apr. 2019)

Original papers and Letters


Conference Presentations (International only)


(9) L. Xu, S. Furukawa, J.C. Middlebrooks (1999) "Cortical parallels to sound-localization illusions," 22nd Midwinter Research Meeting of the Association for Research in Otolaryngology (St. Petersburg Beach).


(12) S. Furukawa, L. Xu, J.C. Middlebrooks (2000) "Neural ensemble codes for sound source location in the auditory cortex," 23rd ARO Midwinter Meeting (St Petersburg Beach, FL).


(22) K. Maki, S. Furukawa (2006) "Neural sensitivity to virtual acoustic space in the external nucleus of the gerbil inferior colliculus," 29th ARO Midwinter Meeting (Baltimore, MD).

(24) S. Furukawa (2007) "Detection of combined changes in interaural time and intensity differences: Comparison between low and high frequency signals," 30th ARO Midwinter Meeting (Denver, CO).


(27) Y.X. Kato, K. Maki, S. Furukawa, M. Kashino (2009), "Development of a flexible surface microelectrode array for multichannel recording of auditory evoked potentials from the rat’s cortex,” the XXXVI th International Union of Physiological Sciences (IUPS2009), (Kyoto, Japan).

(28) K. Maki, S. Furukawa (2009), "Spatial selectivity of neurons in the gerbil inferior colliculus: Effects of natural and unnatural sound reflections by the ground," 32nd ARO Midwinter Meeting (Baltimore, MD).


(30) S. Furukawa (2009), "Modulation detection of interaural time and intensity differences: Where is the source of binaural sluggishness?," International Workshop on the Principles and Applications of Spatial Hearing (Miyagi Zao, Japan).


(36) S. Furukawa (2011) "Processes for interaural time and level differences: to what extent are they independent and where are they integrated?," 161st Meeting of the Acoustical Society of America (20011.5.23-27, Seattle, USA). [Invited]


Midwinter Meeting (San Diego, CA).


(45) S. Otsuka, S. Yamagishi, K. Hirota, S. Furukawa, M. Kashino (2013), "Relationship between middle-ear transmission characteristics and frequency modulation detection," 36th ARO Midwinter Meeting (Baltimore, MD).


(49) S. Furukawa (2013), "Sensitivities to modulator phase coherence across frequencies," An introduction to the psychology of hearing and beyond, (Cambridge, UK).

(50) C. F. Altmann, S. Terada, M. Kashino, T. Mima, H. Fukuyama, S. Furukawa (2013) " Independent or integrated processing of interaural time and level differences in human auditory cortex?," 43rd Annual Meeting of Society for Neuroscience, Neuroscience 2013 (San Diego, CA).

(51) S. Otsuka, S. Furukawa, S. Yamagishi, K. Hirota, M. Kashino (2014), " Inter-Individual variation of sensitivities to frequency modulation, amplitude modulation, and interaural-phase difference: Relation with click-evoked otoacoustic emissions," 37th ARO Midwinter Meeting (San Diego, CA).


(56) S. Kidani, H. Liao, M. Yoneya, M. Kashino, S. Furukawa (2014), "Deriving the “salience level” of a target sound using a tapping technique," 37th ARO Midwinter Meeting (San Diego, CA).


S. Furukawa (2016), "Natural combinations of interaural time and level differences in realistic auditory scenes," 39th ARO Midwinter Meeting (San Diego, CA).


(80) M. Yoneya, H-I. Liao, M. Kashino, S. Furukawa (2017), "Decoding the implicit mind from fixational eye movements.", 24th International Display Workshop (IDW2017) (Sendai, Japan).


(83) H. Terashima, S. Furukawa (2018), "Reconsidering the efficient coding model of the auditory periphery under reverberations," 41st ARO Midwinter Meeting (San Diego, CA).


(85) S. Furukawa (2018), "Eye metrics as indicators of auditory salience?," 41st ARO Midwinter Meeting (San Diego, CA) [Invited].


(89) H. Terashima, S. Furukawa (2018), "Revisiting efficient coding of natural sounds in the environment: unsupervised learning or task-based optimization?," 27th Annual Computational Neuroscience Meeting
(CNS* 2018) (Seattle, WA).

(93) T. Koumura, H. Terashima, S. Furukawa (2018), "Chimeric sounds with shuffled “texture” and “content” synthesized by a model of the auditory system," International symposium on universal acoustical communication 2018 (Sendai, Japan).

(94) S. Furukawa, H. Terashima, T. Koumura, H. Tsukano (2018), "Data-driven approaches for unveiling the neurophysiological functions of the auditory system," Seminar on brain, hearing and speech sciences for universal speech communication (Sendai, Japan). [Invited]

(95) H. Terashima, S. Furukawa (2018), "An examination of the efficient coding model for auditory nerves during the infant development," Seminar on brain, hearing and speech sciences for universal speech communication (Sendai, Japan).


Review articles (English only)


Books / book chapters (English only)


(3) S. Furukawa, S. Washizawa, A. Ochi, M. Kashino (2013) "How independent are the pitch and the


Invited Talks (International only)


(3) S. Furukawa (2011) "Processes for interaural time and level differences: to what extent are they independent and where are they integrated?" 161st Meeting of the Acoustical Society of America (2011.5.23-27, Seattle, USA).


Media appearance (non-Japanese only)


Activities

(1) Executive council member, editorial board member, award committee member, reviewing committee member, session chair of annual meeting, etc., of the Acoustical Society of Japan

(2) Editorial board member, Trends in Hearing