Program of YKJCA 2017

Youngnam Chapter and Kyushu Chapter Joint Conference on Acoustics 2017

Feb. 4, 2017

Pukyong National University, Busan Korea

YKJCA2017 Schedule	
9:00 ~ 10:00	Registration
10:00 ~ 10:20	Opening Ceremony
10:20 ~ 11:20	Distinguished Lectures
11:20 ~ 11:30	Coffee Break
11:30 ~ 12:30	Oral Session1
12:30 ~ 14:00	Lunch Break
14:00 ~ 15:00	Poster Session
15:00 ~ 16:00	Oral Session2
16:00 ~ 16:10	Coffee Break
16:10 ~ 17:10	Oral Session3
17:10 ~ 17:30	Closing Ceremony

Saturday, February 4

10:20 ~ 11:20 Distinguished Lectures **Chair: Kanglyeol Ha(Pukyong Natl. Univ.)**

DL1 : Numerical modeling and simulation technique in time-domain for multibeam echo sounder

Jeasoo Kim (Korea Maritime and Ocean Univ.)

DL2 : Synergistic interactions underlying the production of human voice

Tokihiko Kaburagi (Kyushu Univ.)

11:20 ~ 11:30 Coffee Break

11:30 ~ 12:30 Oral session 1 **Chair: Reiji Tomiku(Oita Univ.), Yongrae Roh(Kyongbuk Natl. Univ.)**

Size control of droplets including nano particles in ultrasonic atomization(K07)

Soohyun Lim[1], Jungsoon Kim[2], Jihyang Kim[1], Kanglyeol Ha[1], and Moojoon Kim[1]([1]Pukyong Natl. Univ., [2]Tongmyong Univ.)

Topological design of distributed mode loudspeakers based on evolutionary structural optimization(J12)

Toshiya Samejima and Goki Shirouzu(Kyushu Univ.)

Ultrasonic dispersionizer with edge current by using piezoelectric vibrator array(K08)

Minsop Sim[1], Jungsoon Kim[2], Jihyang Kim[1], Kanglyeol Ha[1], and Moojoon Kim[1]([1]Pukyong Natl. Univ., [2]Tongmyong Univ.)

Technical Listening Training as an advanced acoustic education program(J02)

Kazuhiko Kawahara, Masayuki Takada, Shin-ichiro Iwamiya(Kyushu Univ.)

12:30 ~ 14:00 Lunch Break

14:00 ~ 15:00 Poster session

Effects of attack times and release times in compression amplification on Japanese speech perception(J01)

Yoshiki Ifuku, Kimio Shiraishi(Kyushu Univ.)

A Computational Investigation on the Measurement Method for Sound Absorption Coefficient in a Reverberation Room(J03)

Shun Uemoto, Toru Otsuru, and Reiji Tomiku(Oita Univ.)

Underwater acoustic source localization based on a reduced array subspace(K01)

Taekik Kwon[1], Kiman Kim[1], Serim Kim[1], Woongjin Park[1], Yoonjun Son[2] ([1]Korea Maritime and Ocean Univ. [2]Defense Agency for Technology an Quality)

On trade-off phenomenon between interaural level and time differences of sound produced by bone conduction actuator(J06)

Shoya Jinnai, Qin Xiuyuan, Takuya Mori, Tsuyoshi Usagawa(Kumamoto Univ.)

Development of a speaker array system to control directivity characteristics in low frequency range(J07)

Naoyuki Kuse, Irwinsyah, Tsuyoshi Usagawa(Kumamoto Univ.)

Fabrication and Evaluation of Large Aperture Line Focused Transducers Using PVDF and PZT composites(K02)

Seungkwan Kang, Hye Soo Park, Donghyun Kim, Makiko Kobayashi, Masayuki Tanabe, Young H. Kim(Korea Science Academy of KAIST)

Computational study in sound absorption characteristics of Helmholtz resonator using finite element method(J08)

Sakura Saigo, Toru Otsuru, and Reiji Tomiku(Oita Univ.)

Sub-band optimization of neural-network-based broadband beamformer(J09)

Yuya Nishijima, Maya Origuchi, and Mitsunori Mizumachi(Kyushu Institute of Technology)

Design of an Ultrasonic Fingerprint Sensor made of 1-3 Piezocomposites by the Finite Element Method(K06)

Seongwon Jang and Yongrae Roh(Kyungpook Natl. Univ.)

Development of a prototype system for mimicking vowel sounds using a vocal tract mapping interface(J10)

Akihiro Taruguchi and Kohichi Ogata(Kumamoto Univ.)

Higher-Order Frequency Locking of an Organ Pipe: Theoretical and Experimental Study(J11)

Masahiro Okada, and Tokihiko Kaburagi(Kyushu Univ.)

Ultrasonic atomization to save the concentration time for environmental radioactivity sample(K09)

Jiyoung Yeom[1], Jungsoon Kim[2], Jihyang Kim[1], Kanglyeol Ha[1], and Moojoon Kim[1]([1]Pukyong Natl. Univ. [2]Tongmyong Univ.)

Enhancement of the speech from NAM microphone using Analysis-Synthesis Systems using Cepstral Coefficients(J14)

Masatoshi Tsukiashi, Yoichi Midorikawa and Masanori Akita(Oita Univ.)

Alignment of the transmitter coils in the three-dimensional electromagnetic articulograpy having eight transmission channels(J15)

Kohei Wakamiya[1], Hidetsugu Uchida[2] and Tokihiko Kaburagi[1]([1]Kyushu Univ. [2]The Univ. of Tokyo)

Comparison of Waveform Shaping Filters' Performance in the Underwater Acoustic Communication(K12)

Kyu-Chil Park and Jong Rak Yoon(Pukyong Natl. Univ.)

Detection of the Change of Pleasant Feelings When Healing Music using the Sound Signals in the Body(J16)

Kenta Watanabe, Yoichi Midorikawa and Masanori Akita(Oita Univ.)

Comparison of the insertion loss of noise barriers with different shapes of upper structure using mock-up experiments(K13)

Chan-Hoon Haan(Chungbuk Natl. Univ.)

Equivalent Circuit Simulation of Tunable Surface Acoustic Wave Resonator Using Electrical Boundary Condition Difference.(J18)

Miyabi Tanaka[1], Hiroyuki Odagawa[1], Kazuhiko Yamanouchi[2]([1]Natl. Institute of Technology, Kumamoto College, [2]Tohoku Univ.)

Influence of individual difference and relative humidity on sound absorption coefficient measurement using pressure-velocity sensor.(J19)

Saki Yamauchi, Toru Otsuru, and Reiji Tomiku(Oita Univ.)

Factors of Driver's Horn Use and Its Effect on Other Drivers and Pedestrians(J20)

Masashi Miyazaki, Rikako Tajima, Masayuki Takada, Shin-ichiro Iwamiya(Kyushu Univ.)

15:00 ~ 16:00 Oral session 2 Chair: Katsuya Yamauchi(Kyushu Univ.), Moojoon Kim(Pukyong Natl. Univ.)

Prediction of the wave induced second order vertical bending moment due to the variation of the ship side angle by using the quadratic strip theory(K04)

Seunglyong Kim, Jungsoo Ryue(Univ. of Ulsan)

Web application system to support pronunciation instruction in special education classes for language-disabled children(J04)

Ikuyo Masuda-Katsuse(Kindai Univ.)

Prediction of sound transmission loss through and extruded panel using wavenumber domain finite element and boundary element method and window effects(K05)

H. Kim[1], J. Ryue[1], D. J. Thompson[2] and A. D. Muller[2]([1]Univ. of Ulsan, [2]Univ.of Southampton)

Effects of synchronization and periodicity of auditory and visual accents on perceived congruence between sound and moving picture(J05)

Kae Ishida, Saki Liu, Shin-ichiro Iwamiya(Kyushu Univ.)

16:00 ~ 16:10 Coffee Break

16:10 ~ 17:10 Oral session 3 Chair: Koichi Ogata(Kumamoto Univ.), Kyuchil Park(Pukyong Natl. Univ.)

Propagation characteristics of the shock wave from a plane cnts-coated optoacoustic transducer in water(K10)

Xiaofeng Fan[1], Yonggeun Baek[1], Kanglyeol Ha[1], Moojoon Kim[1], Jungsoon Kim[2], Duckjong Kim[3], Hyunwook Kang[1], Junghwan Oh[1]([1]Pukyong Natl. Univ., [2]Tongmyong Univ.,3)

Measurement of the A-weighted sound power level of electric and hybrid electric vehicles (J13)

Kamikaze Tanaka, Katsuya Yamauchi (Kyushu Univ.)

Performance comparison of adaptive equalizers using three algorithms in shallow water with change of depth(K11)

Chuai Ming and Kyuchil Park(Pukyong Natl. Univ.)

Acoustic Characteristics Potentially Related with the Impression of Electric Vehicles —Application of Potential Image Description Method(J17)

Katsuya Yamagata[1], Katsuya Yamauchi[2], Takuya Nomura[2], Yuichi Tachibana[2] ([1]Kyushu Univ., [2]Suzuki Motor Corporation)