

Technical Program

February 7, 2009

09:00~09:30	Registration
09:30~09:40	Opening Ceremony

Distinguished Lectures

Distinguished Lectures		09:40~10:40
Chairman	Prof. Jongkil Lee	
09:40~10:10	Sound gives life to visual media productions <i>Shin-ichiro Iwamiya(Kyushu University)</i>	
10:10~10:40	Application of multilevel acoustic fresnel lens to medical diagnostic imaging probe <i>Kang-Lyeol Ha(Pukyong National University)</i>	
10:40~10:50	Break(10 minutes)	

Oral Sessions

Session 1-A		10:50~11:50
Chairman	Prof. Yongrae Roh, Prof. Akira Omoto	
10:50~11:05	202	Vibration Signal Role in Food Size Preference on Japanese Termites <i>coptotermes Formosanus</i> <i>Andora Suwisto, Toru Otsuru, Reiji Tomiku, and Noriko Okamoto</i>
11:05~11:20	103	Noise reduction of embedded point hydrophone in the outer decoupler <i>Jongkil Lee, Ji-hye Park, Ku-kyun Shin, and Chee-yong Joh</i>
11:20~11:35	217	The basic measurement of the sound signals in the human body for the detection of sleepiness <i>Masanori Akita and Yoichi Midorikawa</i>
11:35~11:50	108	Characteristics of Mutual Radiation Impedance in a Curved Baffle by Spatial Convolution <i>Tae-Hoon Bok, Ying Li, Dong-Guk Paeng, Jongkil Lee, Ku-Kyun Shin, and Chee-yong Joh</i>
11:50~12:40	Lunch Break(50 minutes)	
12:40~13:10	<u>Poster Session</u>	
13:10~14:50	Tour #1(Dosan Sewon)	

Session 1-B		14:50~15:50
Chairman	Prof. Moojoon Kim, Prof. Keiji Kawai	
14:50~15:05	221	Ensemble Averaged Surface Normal Impedance of Material: Preliminary investigation of edge effect using BEM <i>Che Din Nazil, Toru Otsuru, Reiji Tomiku, Noriko Okamoto, Yuka Kikkawa</i>
15:05~15:20	102	Analysis of the effect of reflected wave from sonar-dome on radiation impedance for cylindrical array <i>Jungsoon Kim, Moojoon Kim, Kanglyeol Ha, Heeseon Seo, Chee-yong Joh</i>
15:20~15:35	209	Loudspeaker characteristic evaluation with coherent distance in reverberation Room <i>Kazuhiko Kawahara</i>
15:35~15:50	107	Parametric Speaker Modeling and Simulation using KZK channel model <i>Mano Samuel, Junghee Han, Jinho Bae, Chong Hyun Lee</i>
15:50~16:00	Session Break(10 minutes)	

Session 1-C		16:00~16:45
Chairman	Dr. Chee-yong Joh, Prof. Kohichi Ogata	
16:00~16:15	222	Analysis and evaluation of timbre of electric guitar with vibrato <i>Shogo Kaieda, Keiji Kawai, Takashi Yano, and Yoichi Ando</i>
16:15~16:30	104	Development of a Mechanical Ultrasonic Transducer for 3 Dimensional Medical Diagnosis <i>Jeongdong Woo, Yongrae Roh</i>
16:30~16:45	225	Investigation on the difference of room impulse responses using multi-dimensional scaling-comparison among a traditional theater of Japan, an auditorium and a concert hall- <i>Yasuyoshi Hamamura, Mitsuhiro Nakagawara, Taku Saruwatari, Mitsunori Mizumachi, and Katsuyuki Niyada</i>

Session 2-A		10:50~11:50
Chairman	Prof. Kyun-kyung Lee, Prof. Masuda-Katsuse	
10:50~11:05	215	A Real-time audio watermarking technique with PCM digital instrument <i>Kotaro Yamamoto and Munetoshi Iwakiri</i>
11:05~11:20	204	Word period detection using Hough transform of distance matrix images <i>Hirokyu Nishi, Yoshimasa Kimura, and Takeshi Ishibashi</i>
11:20~11:35	114	The effect of sea surface fluctuation in underwater acoustic communication <i>Ji-Hyun Park, Jong Woo Bae, and Jong Rak Yoon</i>
11:35~11:50	219	Fraunhofer Diffraction Principle for Gradient Measurement of Acoustic Wavefronts <i>Md. Tawhidul Islam Khan, Kenbu Teramoto, and Akito Uekihara</i>

11:50~12:40	Lunch Break(50 minutes)
12:40~13:10	<u>Poster Session</u>
13:10~14:50	Tour #1(Dosan Sewon, Use shuttle bus)

Session 2-B		14:50~15:50
Chairman	Dr. Young Nam Na, Prof. Mitsunori Mizumachi	
14:50~15:05	212	A study on a fluctuation model of the fundamental period for improving the naturalness of the synthesized vowels <i>Kohichi Ogata and Tamon Murata</i>
15:05~15:20	110	In vivo observation of the cyclic variation of echogenicity and Doppler power from carotid artery using Hough transform <i>Ying Li, Tae-Hoon Bok, Dong-Guk Paeng, Jay-Chol Choi, and MinJoo Choi</i>
15:20~15:35	207	A Pilot Examination on Automatic Transformation of Non-Speech Sounds into Japanese Onomatopoeia <i>Katsuya Yamauchi, Masaru Yamashita, and Shoichi Matsunaga</i>
15:35~15:50	211	Measurement of Tinnitus Using Interactive Evolutionary Computation in Normal Hearing Subjects with a Pseudo-tinnitus Tone <i>Kimio Shiraishi Yoshihiro Kanazawa, Mutsumi Saito, Hideyuki Takagi, Toshifumi Sakata, and Takashi Nakagawa</i>
15:50~16:00	Session Break(10 minutes)	

Session 2-C		16:00~17:00
Chairman	Prof. Jong Rak Yoon, Prof. Yoshifumi Chisaki	
16:00~16:15	115	Acoustic Signal Generation for Virtual Simulation of Underwater Engagement Employing Multiple Federates <i>Young Nam Na, and Chan Ki Kim</i>
16:15~16:30	224	The relationship between hoarseness and acoustic features for characterizing elderly speech <i>Takeshi Miyazaki, Masaki Nishi, Mitsunori Mizunachi, and Katsuyuki Niyada</i>
16:30~16:45	113	Closed-Form 3-D Localization for Single Near-Field Source in Uniform Circular Array <i>Eun-Hyun Bae, Bum-Soo Kwon, Jong-Geun Nam, Tae-jin Jung, Kyun-kyung Lee</i>
16:45~17:00	214	An Information Hiding Technique to Music Code with Performance Rendering <i>Kotaro Yamamoto and Munetoshi Iwakiri</i>
17:00~18:00	Tour #2(Museum, By walk)	
18:00~19:40	Reception(Buffet)	

Poster Session

Poster Session

12:40~13:10

Chairman Prof. Taebo Shim

- 408 Effects of diffuser setting on the enclosed sound field
Ayumi Matsumot, and Akira Omoto
- 301 Test method for determining the acoustic performance of noise reducing devices installed on the top of highway noise barriers
Chul-hwan Kim, Tae-sun Chan, and Hyejin Kang
- 406 An estimation method of sound source direction in sagittal coordinate utilizing binaural input
Kojiro Imamura, Yoshifumi Chisaki, and Tsuyoshi Usagawa
- 308 Defect Evaluation of Linear Array Transducers Using Ultrasonic Fields Measured by Schlieren Method
Kwang-Yoon Choi, Jeong-Won Yang, Moojoon Kim, Kang-Lyeol Ha, Jung-Soon Kim, and Chae-Bong Lee
- 410 Study on characteristics extraction of microphone arrangements in musical recording.
Masamichi Sumitomo and Akira Omoto
- 303 Acoustic and Anti-Impact Properties of Transparent Panels in Highway Noise Barriers
Taesun Chang, Chulhwan Kim, Heeman Kang, and Cheolho Hwang
- 404 Real-time 3D-BSS microphone based on the spatio-temporal gradient analysis
Kazuaki Yakabe, and Kenbu Teramoto
- 304 Design of a Triple-Resonant Tonpilz Transducer
Yongrae Roh, and Zhi Tian
- 407 A spectral subtraction method using signals observed at separate computers connected by network
Kousuke Matsuo, Yoshifumi Chisaki, and Tsuyoshi Usagawa
- 305 Performance Analysis of an Underwater Acoustic Communication Systems Applied MIMO technique in the Shallow water
Jin-Woo Jung, Taebo Shim, Dae-yong Kwon, Kim Duk Yung, and Kwan-sub Yoon
- 409 Relationship among preference and subjective spatial impressions in large-scale space
Mitsuhiro Nakagawara, Yasuyoshi Hamamura, Taku Saruwatari, Mitsunori Misumachi, and Katsuyuki Niyada
- 306 A study on the relation between change of wind speed and the amount of bubbles
Byungook Im, Taebo Shim, Young gyu Kim, Seongil Kim, and Jung-soo Park
- 402 Development of Karaoke System that Automatically Modifies Out-of-Tune Vocals
Ikuyo Masuda-Katsuse and Yuichi Urakawa
- 307 Color changes of multi-bubble sonoluminescence due to metallic icons in water
Moon-Su Han, Jae-Wook Lee, Jung-Hwan Baek, Seung-Chan Baek, Young. H. Kim
- 401 A feasibility study of an utterance training system utilizing the automatic speech recognition
- Experimental study performed at Language Center of Institute of Technology, Surabaya, Indonesia -
Hiroaki Shimanoe, Tomohisa Mashima, Kousuke Matsuo, Anik Amalia, Yoshifumi Chisaki, and Tsuyoshi Usagawa
- 302 Experimental analysis of flow induced vibration measurement using fiber optic sensor
Jongkil Lee
- 403 Application of active control system- Active control of directional characteristics of sound field –
Akihiro Kakiuch, and Akira Omoto
- 405 Subjective Congruence Between Rotating Movement of a Visual Object and Pitch Shift Pattern
Ki-Hong Kim, Hiroyuki Kitano, and Shin-ichiro Iwamiya