

Program for Kyushu Youngnam Joint Conference on Acoustics 2011

January 22, 2011 (Saturday)

100th Anniversary Memorial Hall, Kumamoto University Kurokami South Campus

as of Jan. 20

9:30 - 10:20 Registration
10:20 - 10:30 Opening Ceremony

Distinguished Lectures

Session Chair Prof. Tsuyoshi USAGAWA

10:30 - 11:00 Jongkil LEE
Investigation of sound detection using interferometric fiber optic sensor

11:00 - 11:30 Kazutoshi FUJIMOTO
Introduction of sound absorption material made of polyester nonwovens and recycled material made of scrap pieces of polyester nonwovens

11:30 - 11:45 Break (15 minutes)

Oral Session 1A

Session Chair Prof. Keiji KAWAI, Prof. Taebo SHIM

11:45 - 12:00 201 Yasuhiro HIRAGURI and Kazutoshi FUJIMOTO
Effect of the accuracy of GIS digital map data on the evaluation of the Environmental Quality Standard for Noise in Japan

12:00 - 12:15 211 Ki-Hong KIM, Aiko GEJIMA, Shin-ichiro IWAMIYA, and Masayuki TAKADA
Influence of color on perceived loudness and annoyance caused by noise

12:15 - 12:30 227 Katsuya YAMAUCHI
Sound design for quiet vehicle - a proposal on the quiet vehicle problem -

12:30 - 12:45 228 Thu Lan NGUYEN, Takashi YANO, Huy Quang NGUYEN, Tsuyoshi NISHIMURA, Hiroaki FUKUSHIMA, Tetsumi SATO, Takashi MORIHARA, and Yorikata HASHIMOTO
Socio-acoustic surveys on community response to aircraft noise in Vietnam

Oral Session 1B

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Session Chair Prof. Toshiya SAMEJIMA, Prof. Youngji CHOI

11:45 - 12:00 101 Young-Ji CHOI
The application of 1-dimensional diffusers in classroom acoustics

12:00 - 12:15 214 Yuki MATSUMOTO and Akira OMOTO
Sound field evaluation using auditory filter

12:15 - 12:30 231 Rei MATSUMOTO, Toru OTSURU, Reiji TOMIKU, and Noriko OKAMOTO
Ensemble averaged absorption characteristics of materials using an in-situ technique : An investigation on the resonance-type sound absorbing materials

12:30 - 12:45 232 Musli Nizam YAHYA, Toru OTSURU, Reiji TOMIKU, Takeshi OKUZONO, and Toshiki NAGASAWA
A technique of predicting the reverberation time, absorption coefficients and dimensions of a classroom using photo image and feed-forward neural network (FFNN) model

12:45 - 13:35 Lunch Break (50 minutes)

Poster Session

Session Chair Prof. Kotaro SONODA

14:25 - 15:05 University Memorial Museum Tour

Oral Session 2A

Session Chair Prof. Manabu FUKUSHIMA, Prof. Jongkil LEE

15:15 - 15:30 202 Hiroyuki NISHI, Ren IGUCHI, Yoshimasa KIMURA, and Toshio KAKINOKI
Arbitrary word spotting framework using Hough transform of distance matrix images

15:30 - 15:45 203 Ikuyo MASUDA-KATSUSE
Karaoke system automatically manipulating a singing voice

- 15:45 – 16:00 217 Tadashi SAKATA, Yuichi UEDA, and Akira WATANABE
Evaluation of dysarthric speech by the IFC-based formant frequencies
- 16:00 – 16:15 218 Yosuke KOITO, Tadashi SAKATA, and Yuichi UEDA
Estimation of articulation speed based on a separating method into mora-units and its application to visual feedback tool

Oral Session 2B

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Session Chair Prof. Mitsunori MIZUMACHI, Prof. Moojoon KIM

- 15:15 – 15:30 109 SeungKoog LEE, Jong-Rim LEE, and Young H. KIM
Education of acoustics by inquiring activities on the acoustic phenomena using sound card in personal computer
- 15:30 – 15:45 110 Chinsuk HONG, Changjoo SHIN, and Weui Bong JEONG
Active vibration control using acceleration feedback controller with PZT actuators
- 15:45 – 16:00 206 Nobuyuki ENDOH, Takenobu TSUCHIYA, Sayuri MATSUMOTO, and Kazuyoshi MORI
Acoustic lens designing for underwater and medical application
- 16:00 – 16:15 207 Takenobu TSUCHIYA and Nobuyuki ENDOH
Underwater sound propagation near Showa-base in the Antarctic Ocean
- 16:15 – 16:25 Break (10 minutes)

Oral Session 3A

Session Chair Prof. Kazuhiko KAWAHARA, Prof. Jongrak YOON

- 16:25 – 16:40 225 Atsuya SAHO, Kojiro IMAMURA, Yoshifumi CHISAKI, and Tsuyoshi USAGAWA
Improvement of directional selectivity of binaural hearing assistance system –On front-back confusion with an artificial neural network–
- 16:40 – 16:55 216 Yoshitaka KIDA and Toshiya SAMEJIMA
Semi-analytical method based on an integro-modal approach for multiple acoustic scattering fields with arbitrary boundary conditions
- 16:55 – 17:10 112 Jongkil LEE
Sensitivity comparison of fiber optic sensor using by the two different mandrel materials
- 17:10 – 17:25 115 Jongwook KIM, Jihyun PARK, and Jong Rak YOON
Image transmission performance in water tank multi-path environment

Oral Session 3B

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Session Chair Prof. Nobuyuki ENDOH, Prof. Yongrae ROH

- 16:25 – 16:40 104 Jieun LEE, Taebo SHIM, Sangwoo NAM, and Byeongdeuk CHOI
Automatic acquiring of 3-mode image from side scan sonar for recognizing object
- 16:40 – 16:55 105 Ducksoo LEE, Taebo SHIM, Yeonggyu KIM, Seongil KIM, and Joungsoo PARK
A study on limit factor by BER performance in underwater communication channel
- 16:55 – 17:10 107 Misun JO, Jungsoon KIM, Moojoon KIM, and Kanglyeol HA
Dispersion effect of Al_2O_3 nanoparticle according to ultrasound exposure conditions
- 17:10 – 17:25 108 Yongrae ROH and Hoseop SHIN
2-2 mode piezocomposites made of PMN-PT single crystals for high frequency medical ultrasonic transducers
- 17:40 – 17:50 Closing Ceremony
- 19:00 – 21:30 Banquet

* Room: Academic Commons Kurokami-1

Poster Session

- 102 Tae-Jin JUNG, Bum-Soo KWON, and Kyun Kyung LEE
Decoupled Location Parameter Estimation of 3-D Near-Field Sources in a UCA using the RARE Algorithm
- 209 Masakazu SAKAGUCHI, Tatsuya KANECHIKA, Takuya KAWABATA, Yoichi MIDORIKAWA, and Masanori AKITA
Detection of sleepiness using the sound signals inside the body and the hip pressure by piezoelectric
- 111 Sang Ho JEON, Kyu-Chil PARK, and Yoon Seok JANG
Analysis of normal electroencephalogram for comparison with abnormal one
- 113 Yoon-Hee JI, Sung-Ung YUN, Sang-Yoon PARK, Jea-Soo KIM, Woo-Shik KIM, and Sang-Moon CHOI
Measurement of the scaled target signals in acoustic water tank using multi-static system
- 226 Satoru FUJISAWA, Yoshifumi CHISAKI, and Tsuyoshi USAGAWA
Direct sound enhancement based on directions of sound source detected at onsets of binaural signals
- 204 Keita SUGIO, Yoshitaka KONDO, Kouji YOSHIKAWA, Yumi SASAKI, Manabu FUKUSHIMA, Michiko KAZAMA, Mitsuo MATSUMOTO, and Hirofumi YANAGAWA
The steady "talker characteristics" represented by the NARROW banded Speech voice Energy Changes (NA-SEC) for talker identification
- 208 Ryohei YOSHIDA, Yoichi MIDORIKAWA, and Masanori AKITA
Noisy speech recognition by speech enhancement using the averaged spectral envelopes of vocalic sounds
- 213 Kohei MATSUMURA and Kohichi OGATA
Development of setting tool for vocal tract shape using finger motion for vowel synthesis
- 219 Satomi SHIBAYAMA, Ikuyo MASUDA-KATSUSE, and Takeshi YAMAGUCHI
Development of sound effect generation system corresponding to change in virtual space
- 220 Kakeru TOMITA, Tadashi SAKATA, and Yuichi UEDA
Investigation of relationship between vowel articulation and its color representation in a speech visualization tool
- 223 Takahiro IDE, Mitsunori MIZUMACHI, Yoshihisa NAKATOH, and Katsuyuki NIYADA
A study of asynchronous phenomenon in articulation for elderly people
- 221 Kunihisa NAKASHIMA and Kohichi OGATA
Representation of changes in the vocal tract shape by superposition model and speech synthesis
- 222 Haiyan YANG, Yoshifumi CHISAKI, Tsuyoshi USAGAWA, and Xinxing JING
Performance test of parameters for speaker recognition system based on SVM-VQ
- 210 Haruna FUJIHIRA, Kimio SHIRAIISHI, Mutsumi SAITO, and Hideyuki TAKAGI
Measurement of tinnitus using interactive evolutionary computation in subjects with tinnitus
- 212 Ki-Hong KIM, Kazuhiko KAWAHARA, Shin-ichiro IWAMIYA, and Masayuki TAKADA
Case study of technical listening training for Korean students of music major
- 215 Mariko HAMAMURA and Shin-ichiro IWAMIYA
Survey on the use of portable audio devices
- 224 Yozo ARAKI and Toshiya SAMEJIMA
Vibro-acoustic analysis of membranophones involving the bending stiffness and tension of their diaphragms
- 229 Quang NGUYEN HUY, Yuya NISHIMURA, Sohei NISHIMURA, Tsuyoshi NISHIMURA, and Takashi YANO
The acoustic design of soundproofing doors and windows
- 230 Masuo FUKADA, Toru TSURU, Reiji TOMIKU, and Noriko OKAMOTO
Basic study on vibration signal role in foraging activity on subterranean termites *Coptotermes formosanus*
- 205 Nobuaki SAKAI and Kazutoshi FUJIMOTO
A basic study on the stage acoustics from a viewpoint of ease of musical performance
- 233 Munehide SAITO, Kazuaki SAKODA, and Keiji KAWAI
A field experiment on the effect of sound absorption on the acoustic environment of nursery school classrooms
- 103 Hoa N.T. DOAN and Taebo SHIM
A new underwater target tracking system using the IAFSA algorithm
- 106 Yejoon PARK, Jungsoon KIM, Moojoon KIM, and Kanglyeol HA
Visualization method of thermal distribution on focused ultrasonic field
- 114 Hae-Rang HWANG, Yonggang CAO, Jung-Soon KIM, Moo-Joon KIM, and Kang-Lyeol HA
Influence of defective elements on acoustic fields and B-mode images in an array transducer

Guidelines for presenters

Distinguished lectures

30 minutes are allocated for each lecture including discussion.

Oral presentation

15 minutes are allocated for the oral presentation including discussion.

(12 minutes for the presentation and the remaining 3 minutes for discussion.)

A projector will be available in each oral presentation room.

Please use your own computer for your presentation.

Poster presentation

50 minutes are allocated for the poster session.

Portrait A1 (841 mm x 594 mm) or portrait B1 (1030 mm x 728 mm) is the recommended size for your poster.

The poster boards will be set up in a presentation room and each board will have the paper number.

Please place your poster on the correct board.

If you have any questions about your presentation, please contact the conference secretariat at kjca2011@hicc.cs.kumamoto-u.ac.jp.

Maps

Campus map and Venue

<http://www.kumamoto-u.ac.jp/about/access/campus.html>

41.100th Anniversary Memorial Hall

Registration, Opening Ceremony, Distinguished Lectures, Oral Session 1A,2A,3A

Poster Session, Closing Ceremony

42.Academic Commons Kurokami-1

Oral Session 1B,2B,3B

6.The Memorial Museum of the Fifth High School

University Memorial Museum Tour

<http://www.kumamoto-u.ac.jp/dept/fifth/>

Access map

http://www.kumamoto-u.ac.jp/about/access/access_map.html

Kurokami South Campus

http://www.mapion.co.jp/m/32.809747222222_130.728996388889_8/