Jeong, Cheol-Ho
chj@elektro.dtu.dk
Department of Electrical Engineering - Associate Professor
Acoustic Technology

Publications:

Investigation on acceptable reverberation time at various frequency bands in halls that present amplified music
Publication: Research - peer-review » Journal article – Annual report year: 2017

A Measure Based on Beamforming Power for Evaluation of Sound Field Reproduction Performance
Publication: Research - peer-review » Journal article – Annual report year: 2017

Assessment of perceptual diffuseness in the time domain
Publication: Research - peer-review » Article in proceedings – Annual report year: 2017

Auralizations with loudspeaker arrays from a phased combination of the image source method and acoustical radiosity
Publication: Research - peer-review » Journal article – Annual report year: 2017

Bayesian inference of the flow resistivity of a sound absorber and the room's influence on the Sabine absorption coefficients
Publication: Research - peer-review » Journal article – Annual report year: 2017

Estimating the Sabine absorption coefficient of fibrous materials for various backing conditions
Publication: Research - peer-review » Article in proceedings – Annual report year: 2017

Estimation of surface impedance at oblique incidence based on sparse array processing
Publication: Research - peer-review » Journal article – Annual report year: 2017

Estimation of surface impedance using different types of microphone arrays
Publication: Research - peer-review » Conference abstract in journal – Annual report year: 2017

Evaluation of a Loudspeaker-Based Virtual Acoustic Environment for Investigating sound-field auditory steady-state responses
Publication: Research - peer-review » Journal article – Annual report year: 2017

Finite volume method room acoustic simulations integrated into the architectural design process
On-site and laboratory evaluations of soundscape quality in recreational urban spaces
Publication: Research - peer-review › Journal article – Annual report year: 2017

Relationship between overall comfort and combined thermal and acoustic conditions in urban recreational spaces
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Retrieving complex surface impedances from statistical absorption coefficients
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Subjective rating and objective evaluation of the acoustic and indoor climate conditions in video conferencing rooms
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Decay curves in coupled, reverberant spaces
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Diffuse sound field: challenges and misconceptions
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Effect of modulation depth, frequency, and intermittence on wind turbine noise annoyance
Publication: Research - peer-review › Journal article – Annual report year: 2016

Experimental and numerical comparison of absorption optimization in small rooms
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

First- and Second-level Bayesian Inference of Flow Resistivity of Sound Absorber and Room’s Influence
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Impedance estimation of a finite absorber based on spherical array measurements
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

In situ measurements of the oblique incidence sound absorption coefficient for finite sized absorbers
Publication: Research - peer-review › Journal article – Annual report year: 2016

Kurtosis as a diffuseness measure
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016
Kurtosis of room impulse responses as a diffuseness measure for reverberation chambers
Publication: Research - peer-review › Journal article – Annual report year: 2016

On-site and laboratory soundscape evaluations of three recreational urban spaces
Publication: Research - peer-review › Conference abstract in journal – Annual report year: 2016

Predicting the Sabine absorption coefficients of fibrous absorbers for various air backing conditions with a frequency-dependent diffuseness correction
Publication: Research - peer-review › Journal article – Annual report year: 2016

Scattering from objects and surfaces in room acoustical simulations
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Subjective evaluation of restaurant acoustics in a virtual sound environment
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

The effect of human activity noise on the acoustic quality in open plan office
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

The Effect of Objective Room Acoustic Parameters on Auditory Steady-State Responses
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Uncertainty of input data for room acoustic simulations
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Acoustic behavior of porous ceiling absorbers based on local and extended reaction (L)
Publication: Research - peer-review › Journal article – Annual report year: 2015

Annoyance of wind-turbine noise as a function of amplitude-modulation parameters
Ioannidou, C., Santurette, S. & Jeong, C-H. 2015
Publication: Research - peer-review › Paper – Annual report year: 2015

Bayesian inversion from sabine absorption coefficients to flow resistivity values for porous absorbers.
Jeong, C-H. 2015 Proceedings of NOVEM 2015. 8 p. 48940
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Benefits and applications of laser-induced sparks in real scale model measurements
Publication: Research - peer-review › Journal article – Annual report year: 2015
Characterization of diffusivity based on spherical array processing
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Comparing a phased combination of acoustical radiosity and the image source method with other simulation tools
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Development and validation of a combined phased acoustical radiosity and image source model for predicting sound fields in rooms
Publication: Research - peer-review › Journal article – Annual report year: 2015

Different radiation impedance models for finite porous materials
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Effects of different diffuser types on the diffusivity in reverberation chambers
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Finite surface method to measure the sound absorption coefficient at oblique incidence
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Modelling the Group Size for Prediction of the Noise Level in Eating Establishments
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Reproducibility of The Random Incidence Absorption Coefficient Converted From the Sabine Absorption Coefficient.
Publication: Research - peer-review › Journal article – Annual report year: 2014

Sabine Absorption Coefficient Predictions Using Different Radiation Impediances of a Finite Absorber
Publication: Research - peer-review › Journal article – Annual report year: 2015

Teatro zandonai in Rovereto, Italy: a case study for restoration
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Acoustic comfort in eating establishments
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

An objective measure for the sensitivity of room impulse response and its link to a diffuse sound field
Publication: Research - peer-review › Journal article – Annual report year: 2014

Description and validation of a combination of acoustical radiosity and the image source method
Eigenbeamforming array systems for sound source localization
Publication: Research › Ph.D. thesis – Annual report year: 2014

Enhancing the beamforming map of spherical arrays at low frequencies using acoustic holography
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

Influence of impedance phase angle on sound pressures and reverberation times in a rectangular room
Publication: Research - peer-review › Journal article – Annual report year: 2014

Modelling classroom conditions with different boundary conditions
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

Sabine absorption coefficients to random incidence absorption coefficients
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

The effect of interaural-time-difference fluctuations on apparent source width
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

The use of a reference absorber for absorption measurements in a reverberation chamber
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

An objective measure for the sensitivity of the room impulse response
Publication: Research - peer-review › Conference article – Annual report year: 2013

Combination of acoustical radiosity and the image source method.
Publication: Research - peer-review › Journal article – Annual report year: 2013

Converting Sabine absorption coefficients to random incidence absorption coefficients.
Publication: Research - peer-review › Journal article – Annual report year: 2013

Development of a pressure based room acoustic model using impedance descriptions of surfaces
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

Improved low frequency room responses by considering finiteness of room boundary surfaces
Publication: Research - peer-review › Journal article – Annual report year: 2013

Reflection and absorption coefficients for use in room acoustic simulations
Room acoustic transition time based on reflection overlap
Publication: Research - peer-review › Conference article – Annual report year: 2013

The equivalent incidence angle for porous absorbers backed by a hard surface
Publication: Research - peer-review › Journal article – Annual report year: 2013

Towards an enhanced performance of uniform circular arrays at low frequencies
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

Audience noise in concert halls during musical performances
Publication: Research - peer-review › Journal article – Annual report year: 2012

Absorption and impedance boundary conditions for phased geometrical-acoustics methods
Publication: Research - peer-review › Journal article – Annual report year: 2012

Absorption boundary conditions for geometrical acoustics
Publication: Research - peer-review › Article in proceedings – Annual report year: 2012

A combination of the acoustic radiosity and the image source method
Publication: Research - peer-review › Article in proceedings – Annual report year: 2012

Audible reflection density for different late reflection criteria in rooms
Publication: Research - peer-review › Article in proceedings – Annual report year: 2012

Audience noise in concert halls during musical performances
Publication: Research - peer-review › Article in proceedings – Annual report year: 2012

Effects of source and receiver locations in predicting room transfer functions by a phased beam tracing method
Publication: Research - peer-review › Journal article – Annual report year: 2012

Thresholds for the slope ratio in determining transition time and quantifying diffuser performance in situ
Publication: Research - peer-review › Journal article – Annual report year: 2012

Are binaural recordings needed for subjective and objective annoyance assessment of traffic noise?
Publication: Research - peer-review › Article in proceedings – Annual report year: 2011

Equal autophonic level curves under different room acoustics conditions
Guideline for Adopting the Local Reaction Assumption for Porous Absorbers in Terms of Random Incidence Absorption Coefficients
Publication: Research - peer-review › Journal article – Annual report year: 2011

Random incidence absorption coefficients of porous absorbers based on local and extended reaction models
Publication: Research - peer-review › Article in proceedings – Annual report year: 2011

Room acoustic investigation of actors’ positions and orientations for various theatre configurations in a moderate-sized drama theatre
Publication: Research - peer-review › Journal article – Annual report year: 2011

Subjective response to foot-fall noise, including localization of the source position
Publication: Research - peer-review › Article in proceedings – Annual report year: 2011

Room acoustic transition time based on the overlap of reflected waves.
Publication: Research - peer-review › Journal article – Annual report year: 2010

A room acoustic transition time based on the overlap of reflected waves.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2010

Audience noise in performance spaces
Publication: Research - peer-review › Article in proceedings – Annual report year: 2010

Influence of the acoustic environment on the loudness of one’s own voice.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2010

Non-uniform sound intensity distributions when measuring absorption coefficients in reverberation chambers using a phased beam tracing
Publication: Research - peer-review › Journal article – Annual report year: 2010

Obtaining a frequency independent reverberation time in listening rooms.
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2010

Room acoustic transition time based on reflection overlap
Publication: Research - peer-review › Journal article – Annual report year: 2010
Errors in the Low to Mid Frequency Prediction by Using the Phased Beam Tracing Method
Publication: Research › Article in proceedings – Annual report year: 2007

Implementation of the Uniform Theory of Diffraction in the Phased Beam Tracing Method
Publication: Research › Article in proceedings – Annual report year: 2007

Introduction and Applications of Phased Beam Tracing Method: Can We Interpret Low Frequency Response by the Particle Property?
Publication: Research › Article in proceedings – Annual report year: 2007

A Study on the Characteristics of Phased Beam Tracing Method for the Acoustic Simulation of an Enclosure at Mid Frequencies
Publication: Research › peer-review › Article in proceedings – Annual report year: 2006

Binaural Simulation in an Enclosure Using the Phased Beam Tracing
Publication: Research › Article in proceedings – Annual report year: 2006

Objective Evaluation of Engine Noise Quality with the Change of Engine Oil
Publication: Research › Article in proceedings – Annual report year: 2006

On the Proper Selection of Frequency Resolution of the Room Transfer Function by Using the Phased Beam Tracing Method
Publication: Research › Article in proceedings – Annual report year: 2006

Vibro-acoustic Analysis for the Reduction of HDD Noise
Publication: Research › Article in proceedings – Annual report year: 2006

Investigation of the Acoustic Performance of Music Halls Using Measured Radiation Characteristics of the Korean Traditional Musical Instruments
Publication: Research › peer-review › Journal article – Annual report year: 2006

A Comparison between Predicted and Measured Acoustic Characteristics of Jeonmin Catholic Church
Publication: Research › Article in proceedings – Annual report year: 2004

An Application Example of SEA for KOMPSAT-I Satellite Model
Publication: Research › Article in proceedings – Annual report year: 2004
An Experimental Study on the Radiation Characteristics of the Korean Traditional Musical Instruments
Publication: Research › Article in proceedings – Annual report year: 2004

Prediction of the Acoustic Performance of a Music Hall Considering the Radiation Characteristics of Korean Traditional Music Sources
Publication: Research - peer-review › Journal article – Annual report year: 2004

A Study on the Radiation Characteristics of Korean Traditional Musical Sources
Publication: Research - peer-review › Article in proceedings – Annual report year: 2003

Effect of Modal Overlap Factor on the Ray Tracing Analysis of the Curved Beam Structure
Publication: Research › Article in proceedings – Annual report year: 2003

Evaluation of Coupling Loss Factors for the Scale Model of KOMPSAT-II
Publication: Research › Article in proceedings – Annual report year: 2003

High Frequency Vibration Analysis of Curved Beam Structures by Using the Ray Tracing Method
Publication: Research › Article in proceedings – Annual report year: 2003

Modeling of Sound Fields Considering the Acoustical Characteristics of Korean Traditional Musical Instruments
Publication: Research › Article in proceedings – Annual report year: 2003

High Frequency Vibration Analysis of Connected Curved Beam Structures
Publication: Research › Article in proceedings – Annual report year: 2002

Vibro-acoustic Analysis of Simplified Satellite Model by Using the Statistical Energy Analysis Technique
Publication: Research › Article in proceedings – Annual report year: 2002

High Frequency Vibration Analysis of Single Curved Beam Using the Ray Tracing Method
Publication: Research › Article in proceedings – Annual report year: 2001

Projects:

Investigation of the relationships between the subjective assessment and objective parameters of music listening spaces
Wincentz, J. N., Jeong, C., Brunskog, J. & Gade, A. C.
15/10/2017 → 14/10/2021
Project: PhD
Efficient low frequency room acoustic modelling
Mondet, B. J., Brunskog, J., Christensen, C. L. & Jeong, C.
15/12/2016 → 14/12/2019
Project: PhD

Architecture acoustics: an improved design process using integrated hybrid room acoustic simulations
Pind Jörgensson, F. K., Jeong, C., Engsig-Karup, A. P. & Strømann-Andersen, J. B.
01/11/2016 → 31/10/2019
Project: PhD

Effect of room acoustics and head movements on aided and unaided sound-field auditory steady state response (ASSR) measurements
Zapata Rodriguez, V., Jeong, C., Brunskog, J., Harte, J. & Laugesen, S.
01/07/2016 → 30/06/2019
Project: PhD

Characterization of acoustic properties of surfaces based on spatio-temporal information
15/12/2015 → 14/12/2018
Project: PhD

Quantification of diffuseness chambers for sound absorption measurements
Nolan, M., Brunskog, J. & Jeong, C.
01/08/2015 → 31/07/2018
Project: PhD

Room acoustic simulation tool for optimization of absorbent ceiling
Marbjerg, G. H., Brunskog, J., Jeong, C., Nilsson, E., MacDonald, E., Le Bot, A. & Savioja, L.
01/02/2013 → 07/09/2016
Project: PhD

Acoustic array methods for identification of noise sources in vehicles
Tiana Roig, E., Jeong, C., Agerkvist, F. T., Jacobsen, F., Juhl, P. M., Rafaely, B. & Song, W.
01/10/2010 → 26/01/2015
Project: PhD

New measurement techniques: Optical methods for characterizing sound fields
Torras Rosell, A., Agerkvist, F. T., Barrera Figueroa, S., Jeong, C., Gazengel, B. & Humphrey, V. F.
01/04/2010 → 19/03/2014
Project: PhD