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

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Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Kurtosis as a diffuseness measure
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016
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 Impedances of a Finite Absorber
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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
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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

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Publication: Research - peer-review › Journal article – Annual report year: 2013

Reflection and absorption coefficients for use in room acoustic simulations
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Room acoustic transition time based on reflection overlap
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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
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Audience noise in concert halls during musical performances
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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
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Audible reflection density for different late reflection criteria in rooms
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Effects of source and receiver locations in predicting room transfer functions by a phased beam tracing method
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Institute of Noise Control Engineering of Japan
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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
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Room acoustic investigation of actors’ positions and orientations for various theatre configurations in a moderate-sized drama theatre
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Non-uniform sound intensity distributions when measuring absorption coefficients in reverberation chambers using a phased beam tracing
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Obtaining a frequency independent reverberation time in listening rooms.
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A Correction of Random Incidence Absorption Coefficients for the Angular Distribution of Acoustic Energy under Measurement Conditions
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Sound intensity on an absorber in reverberation conditions
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Publication: Research › Conference abstract in proceedings – Annual report year: 2008

An Approximate Treatment of Reflection Coefficient in the Phased Beam Tracing Method for the Simulation of Enclosed Sound Fields at Medium Frequencies
Publication: Research › Journal article – Annual report year: 2008

Directional distribution of acoustic energy density incident to a surface under reverberant condition
Publication: Research › Article in proceedings – Annual report year: 2008

On the Errors of the Phased Beam Tracing Method for the Room Acoustic Analysis
Publication: Research - peer-review › Journal article – Annual report year: 2008

Consideration of Wall Reflection and Diffraction in the Room Acoustic Prediction Using the Phased Beam Tracing Method
Publication: Research › Ph.D. thesis – Annual report year: 2007
Errors in the Low to Mid Frequency Prediction by Using the Phased Beam Tracing Method
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Implementation of the Uniform Theory of Diffraction in the Phased Beam Tracing Method
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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
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Binaural Simulation in an Enclosure Using the Phased Beam Tracing
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Objective Evaluation of Engine Noise Quality with the Change of Engine Oil
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On the Proper Selection of Frequency Resolution of the Room Transfer Function by Using the Phased Beam Tracing Method
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Vibro-aoustic Analysis for the Reduction of HDD Noise
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A Comparison between Predicted and Measured Acoustic Characteristics of Jeonmin Catholic Church
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An Application Example of SEA for KOMPSAT-I Satellite Model
Publication: Research › Article in proceedings – Annual report year: 2004
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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