Publications:

Contact parameter identification for vibrational response variability prediction  
Publication: Research - peer-review › Journal article – Annual report year: 2017

An adaptive, data driven sound field control strategy for outdoor concerts  
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

An optical flow-based state-space model of the vocal folds  
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

Estimating the diffuseness of sound fields: A wavenumber analysis method  
Publication: Research - peer-review › Journal article – 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

Reduced order modeling in topology optimization of vibroacoustic problems  
Retrieving complex surface impedances from statistical absorption coefficients

Speakers comfort and voice use in different environments and babble-noise. What are the effects on effort and cognition?

A Multi-Model Reduction Technique for Optimization of Coupled Structural-Acoustic Problems

A numerical strategy for finite element modeling of frictionless asymmetric vocal fold collision

Application of a Bayesian algorithm for the Statistical Energy model updating of a railway coach

Decay curves in coupled, reverberant spaces

Impedance estimation of a finite absorber based on spherical array measurements

In situ measurements of the oblique incidence sound absorption coefficient for finite sized absorbers

Modeling and imaging of the vocal fold vibration for voice health.

Model reduction for optimization of structural-acoustic coupling problems

On the use of a variational technique based on integral equations for plane acoustic and vibro-acoustic problems

PARISM - en rumsakustisk simuleringsmodell för vanliga lokaler
Scattering from objects and surfaces in room acoustical simulations
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

A model of mechanical contacts in hearing aids for uncertainty analysis
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

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

Inverse problem in high-speed recordings of the vocal folds
Granados, A. & Brunskog, J. 2015
Publication: Research - peer-review › Conference abstract for conference – 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

Part Summary of the Project ‘Speakers’ Comfort’: Teachers’ Voice use in Teaching Environments
Publication: Research - peer-review › Journal article – Annual report year: 2016
Teachers’ voice use in teaching environment. Aspects on speakers’ comfort
Publication: Research - peer-review › Journal article – Annual report year: 2015

The forced sound transmission of finite ribbed plates, investigating the influence of point connections and periodicity
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Vocal Fold Collision Modeling
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

A modal plate excited by an airborne field and its consequences for SEA
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

Classroom acoustics design for speakers’ comfort and speech intelligibility: a European perspective
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

Description and validation of a combination of acoustical radiosity and the image source method
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

Finite element modeling of the vocal folds with deformable interface tracking
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

Investigation of model based beamforming and Bayesian inversion signal processing methods for seismic localization of underground sources
Publication: Research - peer-review › Journal article – Annual report year: 2014

Model Based Beamforming and Bayesian Inversion Signal Processing Methods for Seismic Localization of Underground Source
Publication: Research › Ph.D. thesis – Annual report year: 2014

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

Classroom acoustics design guidelines based on the optimization of speaker conditions
Publication: Research - peer-review › Article in proceedings – Annual report year: 2012

Energy based prediction models for building acoustics
Publication: Research - peer-review › Article in proceedings – Annual report year: 2012

Measurement and prediction of voice support and room gain
Publication: Research - peer-review › Journal article – Annual report year: 2012

Reverberation time in class rooms – Comparison of regulations and classification criteria in the Nordic countries
Publication: Research - peer-review › Article in proceedings – Annual report year: 2012

Simulation of flanking transmission in super-light structures for airborne and impact sound
Publication: Research - peer-review › Article in proceedings – Annual report year: 2012

Speakers’ comfort and voice level variation in classrooms: Laboratory research
Publication: Research - peer-review › Journal article – Annual report year: 2012

The forced sound transmission of finite single leaf walls using a variational technique
Publication: Research - peer-review › Journal article – Annual report year: 2012

The sound transmission of finite ribbed plates using a variational
Publication: Research - peer-review › Book chapter – 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

Airborne and impact sound transmission in super-light structures
Publication: Research - peer-review › Article in proceedings – Annual report year: 2011
An Improved Prediction Model for the Impact Sound Level of Lightweight Floors: Introducing Decoupled Floor-Ceiling and Beam-Plate Moment
Publication: Research - peer-review › Journal article – Annual report year: 2011

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
Publication: Research - peer-review › Journal article – Annual report year: 2011

Klassrummet och lärarens röst
Publication: Research › Journal article – Annual report year: 2011

Non-diffuseness of vibration fields in ribbed plates
Publication: Research - peer-review › Journal article – 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

Subjective Response to Foot-Fall Noise, Including Localization of the Source Position
Publication: Research - peer-review › Journal article – Annual report year: 2011

The role of classroom acoustics on vocal intensity regulation and speakers’ comfort
Publication: Research › Ph.D. thesis – Annual report year: 2011

Vocal effort with changing talker-to-listener distance in different acoustic environments
Publication: Research - peer-review › Journal article – Annual report year: 2011

A note on measurement of low-frequency noise in rooms
Publication: Research - peer-review › Article in proceedings – Annual report year: 2010

A room acoustic transition time based on the overlap of reflected waves.
Publication: Research › 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 classroom acoustics on the voice levels of teachers with and without voice problems: a field study**
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

**Natural variations of vocal effort and comfort in simulated acoustic environments**
Publication: Research - peer-review › Article in proceedings – Annual report year: 2010

**Room acoustic transition time based on reflection overlap**
Publication: Research - peer-review › Journal article – Annual report year: 2010

**Speaking comfort and voice use of teachers in classrooms**
Publication: Research - peer-review › Conference article – Annual report year: 2010

**A room acoustic investigation of an actor’s position and orientation for drama performances**
Publication: Research - peer-review › Article in proceedings – Annual report year: 2009

**Development of an auditory virtual environment to measure the speakers comfort and increase of voice power levels in lecture rooms**
Publication: Research - peer-review › Article in proceedings – Annual report year: 2009

**Increase in voice level and speaker comfort in lecture rooms**
Publication: Research - peer-review › Journal article – Annual report year: 2009

**Modal density and modal distribution in a ribbed plate**
Brunskog, J., Dickow, K. A. & Ohlrich, M. 2009 *Inter-Noise ’09.*
Publication: Research - peer-review › Article in proceedings – Annual report year: 2009

**Prediction model for the impact sound level of decoupled lightweight floors**
Publication: Research - peer-review › Article in proceedings – Annual report year: 2009

**Prediction of vocal effort and speakers’ comfort in lecture rooms**
Publication: Research › Article in proceedings – Annual report year: 2009

**Sound transmission of finite single walls using a variational technique**
Publication: Research - peer-review › Article in proceedings – Annual report year: 2009
The sound insulation dependence of floor levels in a high-rise wooden building
Sjökvist, L-G. & Brunskog, J. 2009 Inter-Noise '09.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2009

Acoustics in wooden buildings
Publication: Research - peer-review › Report – Annual report year: 2008

Att tala i en undervisningslokal
Brunskog, J. 2008 In : Bygg & Teknik. 99, 3, p. 57
Publication: Communication › Journal article – Annual report year: 2008

Increase of voice level and speaker comfort in lecture rooms
Publication: Research - peer-review › Article in proceedings – Annual report year: 2008

Parameter survey of a rib stiffened wooden floor using sinus modes model
Publication: Research - peer-review › Article in proceedings – Annual report year: 2008

Parameter survey of a rib stiffened wooden floor using sinus modes model: Abstract of paper
Publication: Research - peer-review › Conference article – Annual report year: 2008

Speaker comfort and increase of voice level in lecture rooms
Publication: Research - peer-review › Journal article – Annual report year: 2008

ATTENUATION AND FLANKING TRANSMISSION IN LIGHTWEIGHT STRUCTURES
Publication: Research › Article in proceedings – Annual report year: 2007

Lack of diffuseness in wave propagation in lightweight joist-floors
Publication: Research › Article in proceedings – Annual report year: 2007

Modal analysis for floors in lightweight buildings
Publication: Research › Article in proceedings – Annual report year: 2007

MODEL OF A PERSON WALKING AS A STRUCTURE BORNE SOUND SOURCE
Publication: Research › Article in proceedings – Annual report year: 2007

A wave approach to structural transmission loss in periodic structures: Thin beam case
Brunskog, J. 2005 In : Acta Acustica united with Acustica. 91, p. 91-102
Publication: Research - peer-review › Journal article – Annual report year: 2005

Image solution for clamped finite beams
Brunskog, J. 2005 In : Journal of Sound and Vibration. 287, p. 1057-1064
On the air-gap between narrow plates
Publication: Research - peer-review › Article in proceedings – Annual report year: 2001

Low frequency vibration insulation on periodically stiffened plates
Publication: Research › Article in proceedings – Annual report year: 2000

Models to predict impact sound transmission of lightweight floors. A Literature survey
Publication: Research - peer-review › Journal article – Annual report year: 2000

A clamped beam, images solution
Publication: Research › Article in proceedings – Annual report year: 1999

Prediction of impact noise of lightweight floors, including the tapping machine
Publication: Research › Article in proceedings – Annual report year: 1999

Measurements and modelling of commonly used resilient channels in light weight floor structures.
Publication: Research › Article in proceedings – Annual report year: 1998

On sound transmission through point excited light weight periodic structures
Publication: Research › Article in proceedings – Annual report year: 1998

Prediction models of impact sound insulation on timber floor structures
Publication: Research › Article in proceedings – Annual report year: 1998

Prediction of impact sound on light weight floor structures
Publication: Research › Article in proceedings – Annual report year: 1997

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

Real time sound field control for outdoor concerts - silent zones, adaptation and objective-subjective performance
Plewe, D., Agerkvist, F. T., Brunskog, J. & Fernandez Grande, E. 01/05/2017 → 30/04/2020
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
Outdoor Sound Propagation and Monitoring for Sound Field Control Applications
Nozal, D. C., Brunskog, J., Agerkvist, F. T. & Fernandez Grande, E.
15/12/2016 → 14/12/2019
Project: PhD

Sound field control for outdoor concerts
Heuchel, F. M., Agerkvist, F. T., Brunskog, J. & Fernandez Grande, E.
15/12/2016 → 14/12/2019
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

Nonlinear fractional order derivative models of components and materials in hearing aids and transducers
King, A. W., Agerkvist, F. T., Brunskog, J. & Jensen, J. S.
01/05/2016 → 30/04/2019
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

Computational reduction techniques for numerical vibro-acoustic analysis of hearing aids
Creixell Mediane, E., Brunskog, J. & Jensen, J. S.
01/01/2015 → 31/12/2017
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

Damage an healing processes for voice health; High Speed Camera and biomechanical models
15/10/2012 → 30/09/2016
Project: PhD

Computational methods for detection and imaging of oil in sea water
01/07/2011 → 13/08/2015
Project: PhD
Deconvolution of seismic transient: A model-based signal processing approach
Oh, G. L., Brunskog, J., Agerkvist, F. T., Jensen, J. S., Mosegaard, K. & Rydén, N.
15/03/2011 → 30/09/2014
Project: PhD

Predicting the intelligibility of processed noisy speech based on the signal-to-noise ratio in the modulation domain
Jørgensen, S., Dau, T., Brunskog, J., Cooke, M. & Culling, J.
15/09/2010 → 19/02/2014
Project: PhD

Characterizing human auditory processing in reverberant environments with multiple sound sources
Marschall, M., Dau, T., Buchholz, J., MacDonald, E., Brunskog, J., Pulkki, V. T. & Spors, S.
01/08/2010 → 12/12/2014
Project: PhD

Nonlinear balanced armature receivers
Jensen, J., Agerkvist, F. T., Harte, J., Brunskog, J., Bard, D. & Klippel, W.
01/07/2010 → 15/11/2014
Project: PhD

Akustisk design af super-lette konstruktioner
Christensen, J. E., Hertz, K. D., Brunskog, J., Kjær, M. V., Hoang, L. C., Virdi, K. S. & Ågren, A.
01/12/2009 → 27/05/2013
Project: PhD

Speakers comfort and increase of their voice level in lecture rooms
Pelegrin Garcia, D., Brunskog, J., Poulsen, T., Christiansen, T. U., Bradley, J. S. & Ternström, S.
15/06/2008 → 16/01/2012
Project: PhD

Modelling structural acoustic properties of loudspeaker
Luan, Y., Ohlrich, M., Bech, S., Jacobsen, F., Brunskog, J., Gibbs, B. M. & Kropp, W.
15/02/2008 → 24/08/2011
Project: PhD