Finn T. Agerkvist - DTU Orbit (07/02/2019)
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Research outputs:

Active room compensation for sound reinforcement using sound field separation techniques
Research output: Research - peer-review › Journal article – Annual report year: 2018

A Quiet Zone System, Optimized For Large Outdoor Events, Based on Multichannel FxLMS ANC
Research output: Research - peer-review › Article in proceedings – Annual report year: 2018

A Stepped Acoustic Transmission Line Model of Interference Tubes for Microphones
Research output: Research - peer-review › Article in proceedings – Annual report year: 2018

Fractional Derivative Loudspeaker Models for Nonlinear Suspensions and Voice Coils
Research output: Research - peer-review › Journal article – Annual report year: 2018

On the Interdependence of Loudspeaker Motor Nonlinearities
Research output: Research - peer-review › Article in proceedings – Annual report year: 2018

Sound field control for reduction of noise from outdoor concerts
Research output: Research - peer-review › Article in proceedings – Annual report year: 2018

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

Position Dependence of Fractional Derivative Models for Loudspeaker Voice Coils with Lossy Inductance
Research output: Research - peer-review › Article in proceedings – Annual report year: 2017

Accelerometer Based Motional Feedback Integrated in a 2 3/4" Loudspeaker
Research output: Research - peer-review › Article in proceedings – Annual report year: 2016

Do wavelet filters provide more accurate estimates of reverberation times at low frequencies
Research output: Research - peer-review › Article in proceedings – Annual report year: 2016

Force Factor Modulation in Electro Dynamic Loudspeakers
Research output: Research - peer-review › Article in proceedings – Annual report year: 2016

Modelling the Perceptual Components of Loudspeaker Distortion
Research output: Research - peer-review › Article in proceedings – Annual report year: 2016
Design and Evaluation of Accelerometer based Motional Feedback
Research output: Research - peer-review › Article in proceedings – Annual report year: 2015

Flux Modulation in the Electrodynamic Loudspeaker
Research output: Research - peer-review › Article in proceedings – Annual report year: 2015

Improvements in Elimination of Loudspeaker Distortion in Acoustic Measurements
Research output: Research - peer-review › Article in proceedings – Annual report year: 2015

Improving the efficiency of deconvolution algorithms for sound source localization
Research output: Research - peer-review › Journal article – Annual report year: 2015

Investigation of Current Driven Loudspeakers
Research output: Research - peer-review › Article in proceedings – Annual report year: 2015

Modeling of Lossy Inductance in Moving-Coil Loudspeakers
Research output: Research - peer-review › Journal article – Annual report year: 2015

Reproduction of nearby sources by imposing true interaural differences on a sound field control approach
Research output: Research - peer-review › Journal article – Annual report year: 2015

Shift of the Acoustic Center of a Closed-Box Loudspeaker in a Linear Array: Investigation Using the Beamforming Technique
Research output: Research - peer-review › Journal article – Annual report year: 2015

State-Space Modelling of Loudspeakers using Fractional Derivatives
Research output: Research - peer-review › Article in proceedings – Annual report year: 2015

Compensation of the flux modulation distortion using an additional coil in a loudspeaker unit
Research output: Research - peer-review › Article in proceedings – Annual report year: 2015

Compensation of the flux modulation distortion using an additional coil in a loudspeaker unit.
Research output: Research - peer-review › Article in proceedings – Annual report year: 2014

Eigenbeamforming array systems for sound source localization
Research output: Research › Ph.D. thesis – Annual report year: 2014

Eliminating transducer distortion in acoustic measurements
Research output: Research › Article in proceedings – Annual report year: 2014

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

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

New measurements techniques: Optical methods for characterizing sound fields
Research output: Research › Ph.D. thesis – Annual report year: 2014
Nonlinear Distortion Mechanisms and Efficiency of Balanced-Armature Loudspeakers
Research output: Research › Ph.D. thesis – Annual report year: 2014

Arrangements of a pair of loudspeakers for sound field control with double-layer arrays
Research output: Research - peer-review › Article in proceedings – Annual report year: 2013

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

A comparison of two strategies for generating sound zones in a room.
Research output: Research - peer-review › Article in proceedings – Annual report year: 2011

Adaptive Feedback Cancellation With Band-Limited LPC Vocoder in Digital Hearing Aids
Research output: Research - peer-review › Journal article – Annual report year: 2011

Extracting the invariant model from the feedback paths of digital hearing aids
Research output: Research - peer-review › Journal article – Annual report year: 2011

Generation of sound zones in 2.5 dimensions
Research output: Research - peer-review › Article in proceedings – Annual report year: 2011

Nonlinear time-domain modeling of balanced-armature receivers
Research output: Research - peer-review › Journal article – Annual report year: 2011

Non linear viscoelastic models
Research output: Research - peer-review › Article in proceedings – Annual report year: 2011

The effect of vocal tract impedance on the vocal folds
Research output: Research - peer-review › Conference abstract in proceedings – Annual report year: 2011

Circular Loudspeaker Array with Controllable Directivity
Research output: Research › Article in proceedings – Annual report year: 2010

Frequency Dependence of Damping and Compliance in Loudspeaker Suspensions
Research output: Research - peer-review › Journal article – Annual report year: 2010

Modelling Viscoelasticity of Loudspeaker Suspensions using Retardation Spectra
Research output: Research - peer-review › Article in proceedings – Annual report year: 2010

Noise injection for feedback cancellation with linear prediction
Research output: Research - peer-review › Article in proceedings – Annual report year: 2010

Using a reflection model for modeling the dynamic feedback path of digital hearing aids
Research output: Research - peer-review › Journal article – Annual report year: 2010

Volterra Series Based Distortion Effect
Research output: Research - peer-review › Article in proceedings – Annual report year: 2010

A new approach for modelling the dynamic feedback path of digital hearing aids
Research output: Research › Article in proceedings – Annual report year: 2009
Concha headphones and their coupling to the ear
Research output: Research - peer-review › Article in proceedings – Annual report year: 2009

Time varying behavior of the loudspeaker suspension: Displacement level dependency
Research output: Research - peer-review › Article in proceedings – Annual report year: 2009

A Study of the Creep Effect in Loudspeaker Suspension
Research output: Research - peer-review › Article in proceedings – Annual report year: 2008

Non-linear Loudspeaker Unit Modelling
Research output: Research - peer-review › Article in proceedings – Annual report year: 2008

Time Variance of the Suspension Nonlinearity
Research output: Research - peer-review › Article in proceedings – Annual report year: 2008

Modelling Loudspeaker Non-Linealities
Research output: Research › Article in proceedings – Annual report year: 2007

Monaural separation of dependent audio sources based on a generalized Wiener filter
Research output: Research - peer-review › Article in proceedings – Annual report year: 2007

Time Varying Behavior of the Loudspeaker Suspension
Research output: Research › Article in proceedings – Annual report year: 2007

Efficient Non Linear Loudspeakers
Research output: Research - peer-review › Article in proceedings – Annual report year: 2006

Development of a Sound Quality Evaluation System
Research output: Research - peer-review › Article in proceedings – Annual report year: 2004

Subjective test of class D amplifiers without output filter
Research output: Research - peer-review › Article in proceedings – Annual report year: 2004

Measuring the complexity of the ocean floor
Research output: Research - peer-review › Article in proceedings – Annual report year: 2000

A Study of Simple Diffraction Models
Research output: Research - peer-review › Report – Annual report year: 1997

A Study of Simple Diffraction Models
Research output: Research - peer-review › Paper – Annual report year: 1997

A Time-Frequency Auditory Model Using Wavelet Packets
Research output: Research - peer-review › Journal article – Annual report year: 1996

Time-frequency analysis with temporal and spectral resolution as the human auditory system
Research output: Research - peer-review › Article in proceedings – Annual report year: 1992

Projects:
Sound Field Analysis and Microphone Array in Rooms  
Project: PhD

Acoustic Array Processing and Sound Field Analysis in Rooms  
Project: PhD

Optimization of loudspeakers using material and shape optimization  
Project: PhD

Real time sound field control for outdoor concerts - silent zones, adaptation and objective-subjective performance  
Project: PhD

Outdoor Sound Propagation and Monitoring for Sound Field Control Applications  
Project: PhD

Sound field control for outdoor concerts  
Project: PhD

Minimering af vibro-akustik i tilbagekobl (feedback) i høreapparater  
Project: PhD

Akustisk Identifikation af Søminer  
Project: PhD

Nonlinear fractional order derivative models of components and materials in hearing aids and transducers  
Project: PhD

Quantification of diffuseness chambers for sound absorption measurements  
Project: PhD

Nonlinear balanced armature receivers  
Project: PhD

New measurement techniques: Optical methods for characterizing sound fields  
Project: PhD

Speech intelligibility enhancement using modern envelope and phase manipulations  
Project: PhD

Samtidig tids- og frekvensanalyse  
Project: PhD

New Strategies for Feedback Suppression in Hearing Instruments  
Project: PhD

Topology optimization for medium- to high-frequency applications  
Project: PhD

Deconvolution of seismic transient: A model-based signal processing approach  
Project: PhD
Computational methods for detection and imaging of oil in sea water
Project: PhD

Acoustic array methods for identification of noise sources in vehicles
Project: PhD

Loudspeaker cabinet edge diffraction
Project: Research