Hearing Systems - DTU Orbit (24/02/2018)

Hearing Systems
Department of Electrical Engineering
Organisational unit: Section

Publications:

Robust speech dereverberation with a neural network-based post-filter that exploits multi-conditional training of binaural cues
Publication: Research - peer-review › Journal article – Annual report year: 2018

Task-Modulated Cortical Representations of Natural Sound Source Categories
Publication: Research - peer-review › Journal article – Annual report year: 2018

The impact of exploiting spectro-temporal context in computational speech segregation
Publication: Research - peer-review › Journal article – Annual report year: 2018

The Role of Place Cues in Voluntary Stream Segregation for Cochlear Implant Users
Publication: Research - peer-review › Journal article – Annual report year: 2018

Accuracy of averaged auditory brainstem response amplitude and latency estimates
Publication: Research - peer-review › Journal article – Annual report year: 2017

A Model of Electrically Stimulated Auditory Nerve Fiber Responses with Peripheral and Central Sites of Spike Generation
Publication: Research - peer-review › Journal article – Annual report year: 2017

A Nonlinear Transmission Line Model of the Cochlea With Temporal Integration Accounts for Duration Effects in Threshold Fine Structure
Publication: Research - peer-review › Journal article – Annual report year: 2017

Assessing the efficacy of hearing-aid amplification using a phoneme test
Publication: Research - peer-review › Journal article – Annual report year: 2017

Assessment of broadband SNR estimation for hearing aid applications
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Auditory brainstem response latency in forward masking, a marker of sensory deficits in listeners with normal hearing thresholds
Publication: Research - peer-review › Journal article – Annual report year: 2017

Cascaded Amplitude Modulations in Sound Texture Perception
McWalter, R. I. & Dau, T. 2017 In : Frontiers in Neuroscience. 11, 12 p., 485
Publication: Research - peer-review › Journal article – Annual report year: 2017
Characterizing cochlear hearing impairment using advanced electrophysiological methods
Publication: Research › Ph.D. thesis – Annual report year: 2017

Contribution of low- and high-frequency bands to binaural unmasking in hearing-impaired listeners
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Data-driven approach for auditory profiling
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Effect of musical training on pitch discrimination performance in older normal-hearing and hearing-impaired listeners
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Effects of hearing-aid dynamic range compression on spatial perception in a reverberant environment
Publication: Research - peer-review › Journal article – Annual report year: 2017

Impact of Noise and Noise Reduction on Processing Effort: A Pupillometry Study
Publication: Research - peer-review › Journal article – Annual report year: 2017

Exploiting Deep Neural Networks and Head Movements for Robust Binaural Localization of Multiple Sources in Reverberant Environments
Publication: Research - peer-review › Journal article – Annual report year: 2017

Impact of stimulus-related factors and hearing impairment on listening effort as indicated by pupil dilation
Publication: Research - peer-review › Journal article – Annual report year: 2017

Influence of binary mask estimation errors on robust speaker identification
Publication: Research - peer-review › Journal article – Annual report year: 2017
Investigating the effects of noise-estimation errors in simulated cochlear implant speech intelligibility
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Investigating time-efficiency of forward masking paradigms for estimating basilar membrane input-output characteristics
Publication: Research - peer-review › Journal article – Annual report year: 2017

Lateralized speech perception with small interaural time differences in normal-hearing and hearing-impaired listeners
Publication: Research - peer-review › Article in proceedings – Annual report year: 2017

Linear combination of auditory steady-state responses evoked by co-modulated tones
Publication: Research - peer-review › Journal article – Annual report year: 2017

Modeling Speech Level as a Function of Background Noise Level and Talker-to-Listener Distance for Talkers Wearing Hearing Protection Devices
Publication: Research - peer-review › Journal article – Annual report year: 2017

Musicians do not benefit from differences in fundamental frequency when listening to speech in competing speech backgrounds
Publication: Research - peer-review › Journal article – Annual report year: 2017

Noise-robust cortical tracking of attended speech in real-world acoustic scenes
Publication: Research - peer-review › Journal article – Annual report year: 2017

On-site and laboratory evaluations of soundscape quality in recreational urban spaces
Publication: Research - peer-review › Journal article – Annual report year: 2017

Pitch matching in bimodal cochlear implant patients: Effects of frequency, spectral envelope, and level
Publication: Research - peer-review › Journal article – Annual report year: 2017

Predicting consonant recognition and confusions in normal-hearing listeners
Publication: Research - peer-review › Journal article – Annual report year: 2017

Predicting effects of additive noise and hearing-instrument signal processing on consonant recognition and confusions
Zaar, J. & Dau, T. 2017
Publication: Research › Poster – Annual report year: 2017

Predicting effects of hearing-instrument signal processing on consonant perception
Publication: Research - peer-review › Journal article – Annual report year: 2017
A correlation metric in the envelope power spectrum domain for speech intelligibility prediction
Publication: Research - peer-review › Poster – Annual report year: 2017

A modular guitar for teaching musical acoustics
Publication: Research - peer-review › Journal article – Annual report year: 2016

A new procedure for automatic fitting of the basilar-membrane input-output function to individual behavioral data.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Archetypal analysis of auditory profiling data towards a clinical test battery
Publication: Research › Poster – Annual report year: 2017

Assessing and modeling apparent source width perception
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Assessing the contribution of binaural cues for apparent source width perception via a functional model
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Auditory features in consonant perception - a modeling perspective
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Auditory-model based assessment of the effects of hearing loss and hearing-aid compression on spectral and temporal resolution
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Auditory profiling and hearing-aid satisfaction in hearing-aid candidates
Publication: Research - peer-review › Journal article – Annual report year: 2016

Can place-specific cochlear dispersion be represented by auditory steady-state responses?
Publication: Research - peer-review › Journal article – Annual report year: 2016

Clustering of Cochlear Oscillations in Frequency Plateaus as a Tool to Investigate SOAE Generation
Publication: Research - peer-review › Journal article – Annual report year: 2016

Comparing eye tracking with electrooculography for measuring individual sentence comprehension duration
Publication: Research - peer-review › Journal article – Annual report year: 2016
Extériorisation sonore avec des indices auditifs et visuels discordants
CFA2016/254
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Grid - a fast threshold tracking procedure
Fereczkowski, M., Dau, T. & MacDonald, E. 2016 Advances in Acoustics. Institute of Fundamental Technological Research (IPPT), Warsaw, p. 545-553
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Impact of Background Noise and Sentence Complexity on Processing Demands during Sentence Comprehension
Wendt, D., Dau, T. & Hjortkjær, J. 2016 In : Frontiers in Psychology. 7, 12 p., 345
Publication: Research - peer-review › Journal article – Annual report year: 2016

Individual Hearing Loss: Characterization, Modelling, Compensation Strategies
Publication: Research - peer-review › Editorial – Annual report year: 2016

Investigating low-frequency compression using the Grid method
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Lateralized speech perception in normal-hearing and hearing-impaired listeners and its relationship to temporal processing
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Model-based fitting of compression settings using narrowband stimuli
Kowalewski, B., Fereczkowski, M., MacDonald, E., Strelcyk, O. & Dau, T. 2016
Publication: Research › Poster – Annual report year: 2016

Modeling spectro-temporal modulation perception in normal-hearing listeners
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Modelling the effect of pulse-rate on coding of interaural time differences in listeners with cochlear implants
Publication: Research - peer-review › Conference abstract in journal – Annual report year: 2017

Modelling the Perceptual Components of Loudspeaker Distortion
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Objective and Perceptual Evaluation of a Virtual Sound Environment System.
Cubick, J. & Dau, T. 2016
Publication: Research › Poster – Annual report year: 2016

Objective assessment of stream segregation abilities of CI users as a function of electrode separation
Publication: Research › Poster – 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

Outcome measures based on classification performance fail to predict the intelligibility of binary-masked speech
Publication: Research - peer-review › Journal article – Annual report year: 2016

Perceptual Spaces Induced by Cochlear Implant All-Polar Stimulation Mode
Marozeau, J. & McKay, C. M. 2016 In: Trends in Hearing. 20, 0, 9
Publication: Research - peer-review › Journal article – Annual report year: 2016

Pitch Discrimination in Musicians and Non-Musicians: Effects of Harmonic Resolvability and Processing Effort
Publication: Research - peer-review › Journal article – Annual report year: 2016

Predicting binaural speech intelligibility using the signal-to-noise ratio in the envelope power spectrum domain
Publication: Research - peer-review › Journal article – Annual report year: 2016

Predicting Detectability and Annoyance of EV Warning Sounds using Partial Loudness
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Predicting effects of non-linear frequency compression and impulse-noise suppression on consonant perception
Publication: Research - peer-review › Poster – Annual report year: 2016

Predicting masking release of lateralized speech
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Predicting speech intelligibility based on a correlation metric in the envelope power spectrum domain
Publication: Research - peer-review › Journal article – Annual report year: 2016

Simultaneous measurement of auditory-steady-state responses and otoacoustic emissions to estimate peripheral compression
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Sources of Variability in Consonant Perception and Implications for Speech Perception Modeling
Publication: Research - peer-review › Book chapter – Annual report year: 2016

Spatial Hearing with Incongruent Visual or Auditory Room Cues
Gil Carvajal, J. C., Cubick, J., Santurette, S. & Dau, T. 2016 In : Scientific Reports. 6, 10 p., 37342
Publication: Research - peer-review › Journal article – Annual report year: 2016
Spectral and temporal cues for perception of material and action categories in impacted sound sources
Publication: Research - peer-review › Journal article – Annual report year: 2016

Spectro-temporal modulation sensitivity and discrimination in normal hearing and hearing-impaired listeners
Sanchez Lopez, R., Fereczkowski, M., Santurette, S. & Dau, T. 2016
Publication: Research › Poster – 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

Temporal Fine-Structure Coding and Lateralized Speech Perception in Normal-Hearing and Hearing-Impaired Listeners
Publication: Research - peer-review › Journal article – Annual report year: 2016

The Effect of Tactile Cues on Auditory Stream Segregation Ability of Musicians and Nonmusicians.
Publication: Research - peer-review › Journal article – Annual report year: 2016

The Influence of Visual Cues on Sound Externalization
Publication: Research - peer-review › Poster – Annual report year: 2016

The role of spectral detail in the binaural transfer function on perceived externalization in a reverberant environment
Publication: Research - peer-review › Journal article – Annual report year: 2016

Towards Objective Measures of Functional Hearing Abilities
Publication: Research - peer-review › Book chapter – Annual report year: 2016

Validation of a Virtual Sound Environment System for Testing Hearing Aids
Cubick, J. & Dau, T. 2016 In : Acta Acustica united with Acustica. 102, p. 547-557
Publication: Research - peer-review › Journal article – Annual report year: 2016

Variations in voice level and fundamental frequency with changing background noise level and talker-to-listener distance while wearing hearing protectors: A pilot study
Publication: Research - peer-review › Journal article – Annual report year: 2016

What affects envelope coding in the electrically stimulated auditory nerve?
Joshi, S. N., Dau, T. & Epp, B. 2016
Publication: Research - peer-review › Poster – Annual report year: 2016

A machine-hearing system exploiting head movements for binaural sound localisation in reverberant conditions
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015
Face configuration affects speech perception: Evidence from a McGurk mismatch negativity study
Eskelund, K., MacDonald, E. & Andersen, T. 2015 In : Neuropsychologia. 66, p. 48-54
Publication: Research - peer-review › Journal article – Annual report year: 2014

Fast assessment of auditory spectral and temporal resolution
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Formant compensation for auditory feedback with English vowels
Publication: Research - peer-review › Journal article – Annual report year: 2015

How Hearing Impairment Affects Sentence Comprehension: Using Eye Fixations to Investigate the Duration of Speech Processing
Publication: Research - peer-review › Journal article – Annual report year: 2015

Impact of background noise and sentence complexity on cognitive processing demands
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

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

Informational interference from a competing talker: a thought-provoking but elusive construct
Publication: Research - peer-review › Poster – Annual report year: 2015

Inversion of Auditory Spectrograms, Traditional Spectrograms, and Other Envelope Representations
Decorsière, R. J. B., Søndergaard, P. L., MacDonald, E. & Dau, T. 2015 In : IEEE Transactions on Audio, Speech and Language Processing. 23, 1, p. 46-56
Publication: Research - peer-review › Journal article – Annual report year: 2015

Perceptual Interactions Between Electrodes Using Focused and Monopolar Cochlear Stimulation
Publication: Research - peer-review › Journal article – Annual report year: 2015

Perceptual space induced by cochlear implant all-polar stimulation mode
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

Relation between temporal envelope coding, pitch discrimination, and compression estimates in listeners with sensorineural hearing loss
Bianchi, F., Santurette, S., Fereczkowski, M. & Dau, T. 2015
Publication: Research - peer-review › Poster – Annual report year: 2015

Relation between temporal envelope coding, pitch discrimination, and compression estimates in listeners with sensorineural hearing loss
Publication: Research - peer-review › Journal article – Annual report year: 2015
Statistical representation of sound textures in the impaired auditory system
Publication: Research - peer-review › Article in proceedings – Annual report year: 2016

The influence of visual cues on auditory distance perception.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

The role of harmonic resolvability for pitch discrimination
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

The role of reverberation-related binaural cues in the externalization of speech
Publication: Research - peer-review › Journal article – Annual report year: 2015

The role of temporal resolution in modulation-based speech segregation
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Time-efficient multidimensional threshold tracking method
Publication: Research - peer-review › Conference abstract in journal – Annual report year: 2015

Using eye movements for analyzing the influence of linguistic complexity, noise, and hearing loss on sentence processing time
Wendt, D., Müller, J., Kollmeier, B. & Brand, T. 2015
Publication: Research - peer-review › Poster – Annual report year: 2015

A Danish open-set speech corpus for competing-speech studies
Publication: Research - peer-review › Journal article – Annual report year: 2014

Analyzing processing effort during sentence comprehension in quiet and in noise: Evidence from eye-fixations and pupil size
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

Assessing the effects of temporal coherence on auditory stream formation through comodulation masking release
Publication: Research - peer-review › Journal article – Annual report year: 2014

Auditory Perception of Statistically Blurred Sound Textures
McWalter, R. I., MacDonald, E. & Dau, T. 2014
Publication: Research - peer-review › Poster – Annual report year: 2014

Capturing and reproducing realistic acoustic scenes for hearing research
Publication: Research › Ph.D. thesis – Annual report year: 2014
Comparison of peripheral compression estimates using auditory steady-state responses (ASSR) and distortion product otoacoustic emissions (DPOAE)
Publication: Research › Poster – Annual report year: 2015

Computational speech segregation based on an auditory-inspired modulation analysis
Publication: Research - peer-review › Journal article – Annual report year: 2014

Consonance perception of complex-tone dyads and chords
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

Consonant confusions in frozen and random white noise
Zaar, J., Jørgensen, S. & Dau, T. 2014
Publication: Research - peer-review › Poster – Annual report year: 2014

Consonant confusions in frozen and random white noise
Zaar, J., Jørgensen, S. & Dau, T. 2014
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Distortion-product otoacoustic emission reflection-component delays and cochlear tuning: Estimates from across the human lifespan
Publication: Research - peer-review › Journal article – Annual report year: 2014

Effects of spontaneous otoacoustic emissions on pure-tone frequency difference limens
Publication: Research - peer-review › Journal article – Annual report year: 2014

Effects of tonotopicity, adaptation, modulation tuning, and temporal coherence in “primitive” auditory stream segregation
Publication: Research - peer-review › Journal article – Annual report year: 2014

Electrophysiological assessment of audiovisual integration in speech perception
(DTU Compute PHD-2014; No. 341).
Publication: Research › Ph.D. thesis – Annual report year: 2014

Eliminating transducer distortion in acoustic measurements
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

Ellipsoidal reflector for measuring oto-acoustic emissions
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Exploring the physical correlates of consonant recognition and confusions
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

Generalization of Supervised Learning for Binary Mask Estimation
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014
Human Sound Externalization in Reverberant Environments
Publication: Research › Ph.D. thesis – Annual report year: 2015

Influence of acoustic complexity on spatial release from masking and lateralization.
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

Influence of high-frequency audibility on Distance Perception
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2014

Influence of high-frequency audibility on the perceived distance of sounds
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

Interaction of Working Memory, Compressor Speed and Background Noise Characteristics
Ohlenforst, B., MacDonald, E. & Souza, P. 2014
Publication: Research - peer-review › Poster – Annual report year: 2014

Interaural Place-Mismatch Estimation With Two-Formant Vowels in Unilateral Cochlear- Implant Users
Guérit, F., Santurette, S., Chalupper, J. & Arweiler, I. 2014
Publication: Research - peer-review › Poster – Annual report year: 2014

Investigating Interaural Frequency-Place Mismatches via Bimodal Vowel Integration
Publication: Research - peer-review › Journal article – Annual report year: 2014

Maximum Acceptable Vibrato Excursion as a Function of Vibrato Rate in Musicians and Non-musicians
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

Modeling auditory-nerve responses to electrical stimulation
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

Modeling auditory-nerve responses to electrical stimulation
Joshi, S. N., Dau, T. & Epp, B. 2014
Publication: Research - peer-review › Poster – Annual report year: 2014

Modeling consonant perception in normal-hearing listeners
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

Modeling speech intelligibility based on the signal-to-noise envelope power ratio
Publication: Research › Ph.D. thesis – Annual report year: 2014
Modeling Speech Intelligibility in Hearing Impaired Listeners
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

Native and non-native sentence comprehension in the presence of a competing talker
Publication: Research - peer-review › Poster – Annual report year: 2014

Objective correlates of pitch salience using pupillometry
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

Perception of a Sung Vowel as a Function of Frequency-Modulation Rate and Excursion in Normal-Hearing and Hearing-Impaired Listeners
Publication: Research - peer-review › Journal article – Annual report year: 2014

Perceptual Effects of Dynamic Range Compression in Popular Music Recordings
Publication: Research - peer-review › Journal article – Annual report year: 2014

Pitch coding of complex tones in the normal and impaired auditory system
Publication: Research - peer-review › Poster – Annual report year: 2015

Predicting speech release from masking through spatial separation in distance
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014

Refining a model of hearing impairment using speech psychophysics
Publication: Research - peer-review › Journal article – Annual report year: 2014

Requirements for the evaluation of computational speech segregation systems
Publication: Research - peer-review › Journal article – Annual report year: 2014

Spontaneous otoacoustic emissions are generated by active oscillators clustered in frequency plateaus
Epp, B., Wit, H. & van Dijk, P. 2014
Publication: Research › Poster – Annual report year: 2015

Temporal control and compensation for perturbed voicing feedback
Publication: Research - peer-review › Journal article – 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 importance of binaural cues for the perception of apparent source width at different sound pressure levels
Publication: Research - peer-review › Article in proceedings – Annual report year: 2014
The musical brain
Publication: Research - peer-review › Book chapter – Annual report year: 2015

The role of auditory spectro-temporal modulation filtering and the decision metric for speech intelligibility prediction
Publication: Research - peer-review › Journal article – Annual report year: 2014

The role of temporal coherence in auditory stream segregation
Christiansen, S. K., Dau, T. & Jepsen, M. L. 2014 Technical University of Denmark, Department of Electrical Engineering. 100 p. (Contributions to hearing research, Vol. 17).
Publication: Research › Ph.D. thesis – Annual report year: 2015

The shape of sounds: Audiovisual integration of visual shapes and musical sounds in the human brain
Hjortkjaer, J. 2014
Publication: Research - peer-review › Poster – Annual report year: 2014

A multi-resolution envelope-power based model for speech intelligibility
Publication: Research - peer-review › Journal article – Annual report year: 2012

Analysis of the Auditory System via Sound Texture Synthesis
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

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

Binaural dereverberation based on interaural coherence histograms
Publication: Research - peer-review › Journal article – Annual report year: 2013

Binaural Localization and Detection of Speakers in Complex Acoustic Scenes
Publication: Research - peer-review › Book chapter – Annual report year: 2013

Can comodulation masking release occur when frequency changes could promote perceptual segregation of the on-frequency and flanking bands?
Publication: Research - peer-review › Book chapter – Annual report year: 2013

Causal binary mask estimation for speech enhancement using sparsity constraints
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

Cochlear contributions to the precedence effect.
Publication: Research - peer-review › Book chapter – Annual report year: 2013
Contribution of envelope periodicity to release from speech-on-speech masking
Publication: Research - peer-review › Journal article – Annual report year: 2013

Do perceptual consequences of spontaneous otoacoustic emissions reflect a central plasticity effect?
Hansen, R., Santurette, S. & Verhulst, S. 2013
Publication: Research - peer-review › Poster – Annual report year: 2013

Effects of spontaneous otoacoustic emissions on frequency discrimination
Publication: Research - peer-review › Conference article – Annual report year: 2013

Efficient estimates of cochlear hearing loss parameters in individual listeners
Publication: Research - peer-review › Conference article – Annual report year: 2013

Environment-aware ideal binary mask estimation using monaural cues
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

Estimates of human cochlear tuning derived from DPOAE reflection-component delays
Publication: Research - peer-review › Poster – Annual report year: 2013

Experimental Evidence for a Cochlear Source of the Precedence Effect
Publication: Research - peer-review › Journal article – Annual report year: 2013

Experimental validation of sound field control with a circular double-layer array of loudspeakers.
Publication: Research - peer-review › Journal article – Annual report year: 2013

Extracting Sound-Source-Distance Information from Binaural Signals
Publication: Research - peer-review › Book chapter – Annual report year: 2013

Frequency-Modulation Vowel Maps in Normal-Hearing and Hearing-Impaired Listeners
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2013

Intelligibility of speech produced in temporally modulated noise
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

Interaural bimodal pitch matching with two-formant vowels
Publication: Research - peer-review › Poster – Annual report year: 2013
Objective measures of binaural masking level differences and comodulation masking release based on late auditory evoked potentials
Publication: Research - peer-review › Journal article – Annual report year: 2013

Perception and neural representation of tones in conditions of masking release
Publication: Research - peer-review › Conference abstract in journal – Annual report year: 2012

Playful Interaction with Voice Sensing Modular Robots
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

Predicting speech intelligibility in conditions with nonlinerly processed noisy speech
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

Reliability of procedures used for scaling loudness
Publication: Research - peer-review › Conference article – Annual report year: 2013

Sequential dependencies in magnitude scaling of loudness
Publication: Research - peer-review › Conference article – Annual report year: 2013

Simulating psychophysical tuning curves in listeners with dead regions
Publication: Research - peer-review › Journal article – Annual report year: 2013

Sound-field reconstruction performance of a mixed-order Ambisonics microphone array
Publication: Research - peer-review › Conference article – Annual report year: 2013

Sound Source Distance Estimation in Rooms based on Statistical Properties of Binaural Signals
Georganti, E., May, T., van de Par, S. & Mourjopoulos, J. 2013 In : I E E E Transactions on Audio, Speech and Language Processing. 21, 8, p. 1727-1741
Publication: Research - peer-review › Journal article – Annual report year: 2013

Spectral information for detection of acoustic time to arrival
Publication: Research - peer-review › Journal article – Annual report year: 2013

Spectral integration of interaural time differences in auditory localization
Publication: Research - peer-review › Conference article – Annual report year: 2013

Spectrogram inversion and potential applications for hearing research
Decorsière, R. J. B., Dau, T., Søndergaard, P. L. & MacDonald, E. 2013 Technical University of Denmark, Department of Electrical Engineering.
Publication: Research › Ph.D. thesis – Annual report year: 2013
Speech production in amplitude-modulated noise
Publication: Research - peer-review › Conference article – Annual report year: 2013

Temporal integration near threshold fine structure - The role of cochlear processing
Epp, B., Mauermann, M. & Verhey, J. L. 2013
Publication: Research - peer-review › Poster – Annual report year: 2013

The effect of cochlear nonlinearities on binaural masking level differences
Le Goff, N. & Kohlrausch, A. 2013
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2013

The effect of compression on tuning estimates in a simple nonlinear auditory filter model
Publication: Research - peer-review › Conference article – Annual report year: 2013

The effect of interaural-level-difference fluctuations on the externalization of sound
Publication: Research - peer-review › Journal article – Annual report year: 2013

The influence of masker type on early reflection processing and speech intelligibility (L)
Publication: Research - peer-review › Journal article – Annual report year: 2013

The relation between perceived apparent source width and interaural cross-correlation in sound reproduction spaces with low reverberation
Publication: Research - peer-review › Article in proceedings – Annual report year: 2013

The Relationship Between Background Noise Envelope Power and Speech Intelligibility in Adverse Conditions
Jørgensen, S., Decorsiere, R. J. B., MacDonald, E. & Dau, T. 2013
Publication: Research - peer-review › Poster – Annual report year: 2013

The role of across-frequency envelope processing for speech intelligibility
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Publication: Research - peer-review › Conference abstract in journal – Annual report year: 2013

The role of across-frequency envelope processing for speech intelligibility
Publication: Research - peer-review › Conference article – Annual report year: 2013

The role of high-frequency envelope fluctuations for speech masking release
Publication: Research - peer-review › Conference article – Annual report year: 2013

The role of high-frequency envelope fluctuations for speech masking release.
Publication: Research - peer-review › Conference abstract in journal – Annual report year: 2013

Validation of a Virtual Sound Environment System for Hearing Aid Testing
A computational model of auditory stream segregation based on a temporal coherence analysis

A physiologically inspired model of auditory stream segregation based on a temporal coherence analysis

A Preliminary Study of Individual Responses to Real-Time Pitch and Formant Perturbations
MacDonald, E. & Munhall, K. G. 2012 The Listening Talker: An interdisciplinary workshop on natural and synthetic modification of speech in response to listening conditions. p. 32-35

Behavioral and objective measures of the precedence effect

Blind estimation of the number of speech source in reverberant multisource scenarios based on binaural signals

Comodulation Is a Stronger Binding Cue Than the Common Fate of Frequency Swept Components

Control of sound fields with a circular double-layer array of loudspeakers

Effects of diotic fringes on interaural disparity detection (L)

Effects of Interaural Level and Time Differences on the Externalization of Sound

Effects of Interaural level differences on the externalization of sound

Efficient Algorithms for the Discrete Gabor Transform with a Long Fir Window

High-frequency complex pitch: a search for temporal cues and for a role of spectral indices

Increased intensity discrimination thresholds in tinnitus subjects with a normal audiogram
Interrelation Between Sensation Level and Auditory Evoked Potentials Under Conditions of Masking Release
Publication: Research › Conference abstract for conference – Annual report year: 2012

Listening in adverse conditions: Masking release and effects of hearing loss
Publication: Research › Ph.D. thesis – Annual report year: 2012

Listening talkers produce great spectral tilt contrasts
Christiansen, T. U., Heegård, J. & Henrichsen, P. J. 2012
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2012

Metrics for performance assessment of mixed-order Ambisonics spherical microphone arrays
Publication: Research - peer-review › Article in proceedings – Annual report year: 2012

Modeling auditory evoked brainstem responses to transient stimuli
Publication: Research - peer-review › Journal article – Annual report year: 2012

Modeling speech intelligibility in adverse conditions
Dau, T. 2012 The Listening Talker: Proceedings. p. 6-6
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2012

Nonlinear time-domain cochlear model for transient stimulation and human otoacoustic emission
Publication: Research - peer-review › Journal article – Annual report year: 2012

On the possibility of a place code for the low pitch of high-frequency complex tones
Publication: Research - peer-review › Journal article – Annual report year: 2012

Perceptual Confusions Among Consonants, Revisited: Cross-Spectral Integration of Phonetic-Feature Information and Consonant Recognition
Christiansen, T. U. & Greenberg, S. 2012 In : I E E E Transactions on Audio, Speech and Language Processing. 20, 1, p. 147-161
Publication: Research - peer-review › Journal article – Annual report year: 2011

Prediction of speech masking release for fluctuating interferers based on the envelope power signal-to-noise ratio
Publication: Research - peer-review › Article in proceedings – Annual report year: 2012

Prediction of speech masking release for fluctuating interferers based on the envelope power signal-to-noise ratio
Publication: Research - peer-review › Conference abstract in journal – Annual report year: 2012

Reference hearing threshold levels for chirp signals delivered by an ER-3A insert earphone
Publication: Research - peer-review › Journal article – Annual report year: 2012

Relating binaural pitch perception to the individual listener's auditory profile
Publication: Research - peer-review › Journal article – Annual report year: 2012
Relationship between masking release in fluctuating maskers and speech reception thresholds in stationary noise
Publication: Research - peer-review › Journal article – Annual report year: 2012

Relationships between Cochlear Tuning and Delay Probed with a Nonlinear Transmission-Line Model
Publication: Research › Conference abstract for conference – Annual report year: 2012

Representational Similarity Analysis Reveals Heterogeneous Networks Supporting Speech Motor Control
Publication: Research - peer-review › Poster – Annual report year: 2012

Robustness of a Mixed-Order Ambisonics Microphone Array for Sound Field Reproduction
Publication: Research - peer-review › Article in proceedings – Annual report year: 2012

Sense Meets Nonsense: a dual-layer Danish speech corpus for perception studies
Publication: Research - peer-review › Article in proceedings – Annual report year: 2012

Simulation zur zeitlichen Integration nahe der Ruhehörschwelle
Publication: Research - peer-review › Article in proceedings – Annual report year: 2012

Untersuchung zur akustischen Bewegungswahrnehmung mit Hilfe des auditorischen Moments
Publication: Research - peer-review › Article in proceedings – Annual report year: 2012

Word Recognition for Temporally and Spectrally Distorted Materials: The Effects of Age and Hearing Loss
Publication: Research - peer-review › Journal article – Annual report year: 2012

Processing of spatial sounds in the impaired auditory system
(Contributions to Hearing Research; No. 11).
Publication: Research › Ph.D. thesis – Annual report year: 2011

A cross-language study of compensation in response to real-time formant perturbation
Publication: Research - peer-review › Journal article – Annual report year: 2011

Application of a circular 2D hard-sphere microphone array for higher-order Ambisonics auralization
Publication: Research - peer-review › Article in proceedings – Annual report year: 2011

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

Behavioral estimates of basilar-membrane input-output in normal-hearing listeners
Can a static nonlinearity account for the dynamics of otoacoustic emission suppression?
Publication: Research - peer-review › Article in proceedings – Annual report year: 2011

Characterizing auditory processing and perception in individual listeners with sensorineural hearing loss
Publication: Research - peer-review › Journal article – Annual report year: 2011

Contribution of supra-threshold processing to speech masking release
Publication: Research - peer-review › Article in proceedings – Annual report year: 2011

Evaluation of a mixed-order planar and periphonic Ambisonics playback implementation
Publication: Research - peer-review › Article in proceedings – Annual report year: 2011

Human cochlear tuning estimates from stimulus-frequency otoacoustic emissions
Publication: Research - peer-review › Journal article – Annual report year: 2011

Investigating the periodicity of transient-evoked otoacoustic emission envelopes
Publication: Research - peer-review › Article in proceedings – Annual report year: 2011

Low-frequency versus high-frequency synchronisation in chirp-evoked auditory brainstem responses
Publication: Research - peer-review › Book chapter – Annual report year: 2012

Mixed-order Ambisonics recording and playback for improving horizontal directionality
Publication: Research - peer-review › Article in proceedings – Annual report year: 2011

Modeling auditory grouping based on a temporal coherence analysis
Publication: Research - peer-review › Article in proceedings – Annual report year: 2011

Modeling the effects of compression and suppression on estimates of auditory frequency selectivity
Publication: Research - peer-review › Article in proceedings – Annual report year: 2011

Modelling the level-dependent latency of the auditory brainstem response
Publication: Research - peer-review › Article in proceedings – Annual report year: 2011

Modulation filtering using an optimization approach to spectrogram reconstruction
Neural coding and perception of pitch in the normal and impaired human auditory system
Publication: Research › Ph.D. thesis – Annual report year: 2011

On the relationship between multi-channel envelope and temporal fine structure
Publication: Research - peer-review › Article in proceedings – Annual report year: 2011

Perception of interaural time differences at threshold and suprathreshold levels
Publication: Research - peer-review › Article in proceedings – Annual report year: 2011

Perceptual Weights for Loudness Judgments of 6-Tone Complexes
Publication: Research - peer-review › Conference abstract in journal – Annual report year: 2011

Perceptual weights for loudness reflect central spectral processing.
Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2011

Pitch perception beyond the traditional existence region of pitch
Publication: Research - peer-review › Journal article – Annual report year: 2011

Predicting speech intelligibility based on the signal-to-noise envelope power ratio after modulation-frequency selective processing
Publication: Research - peer-review › Journal article – Annual report year: 2011

Predicting speech intelligibility in adverse conditions: evaluation of the speech-based envelope power spectrum model
Publication: Research - peer-review › Article in proceedings – Annual report year: 2011

Predicting the effect of spectral subtraction on the speech recognition threshold based on the signal-to-noise ratio in the envelope domain
Publication: Research - peer-review › Article in proceedings – Annual report year: 2011

Predicting the intelligibility of processed noisy speech based on the signal-to-noise ratio in the modulation domain
Publication: Research - peer-review › Article in proceedings – Annual report year: 2011

Relations between perceptual measures of temporal processing, auditory-evoked brainstem responses and speech intelligibility in noise
Publication: Research - peer-review › Journal article – Annual report year: 2011

Sound Exposure of Symphony Orchestra Musicians
Speech recognition employing biologically plausible receptive fields  

Temporal and Spectral Cues for Musical Timbre Perception in Electric Hearing  

Temporal integration of loudness measured using categorical loudness scaling and matching procedures  

Temporal suppression of the click-evoked otoacoustic emission level-curve  

The influence of spectral characteristics of early reflections on speech intelligibility  

The Linear Time Frequency Analysis Toolbox  

The role of temporal fine structure information for the low pitch of high-frequency complex tones  

Towards a binaural modelling toolbox  

A loudspeaker-based room auralization system for auditory research  
(CONTRIBUTIONS TO HEARING RESEARCH; No. 9).

Modeling auditory processing and speech perception in hearing-impaired listeners  

Hearing aid Amplification at Soft Input Levels  

A loudspeaker-based room auralisation (LoRA) system for auditory perception research  
Buchholz, J. & Favrot, S. E. 2010
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Publication: Research - peer-review › Article in proceedings – Annual report year: 2010

LoRA: A Loudspeaker-Based Room Auralization System
Publication: Research - peer-review › Journal article – Annual report year: 2010

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Buchholz, J. & Favrot, S. E. 2010 International Workshop on the principles and applications of spatial hearing. IWPASH
Publication: Research › Article in proceedings – Annual report year: 2010

Modeling human auditory evoked brainstem responses based on nonlinear cochlear processing
Publication: Research - peer-review › Article in proceedings – Annual report year: 2010

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Publication: Research - peer-review › Article in proceedings – Annual report year: 2010

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Publication: Research - peer-review › Article in proceedings – Annual report year: 2010

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Publication: Research - peer-review › Conference abstract for conference – Annual report year: 2010

Prediction of speech intelligibility based on an auditory preprocessing model
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Publication: Research - peer-review › Journal article – Annual report year: 2010

Reproduction of nearby sound sources using high-order Ambisonics: Implementation and evaluation
Publication: Research › Article in proceedings – Annual report year: 2010

Revisiting perceptual compensation for effects of reverberation in speech identification
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Speech intelligibility enhancement by early reflections for normal-hearing and hearing-impaired listeners
Arweiler, I., Buchholz, J. & Dau, T. 2010
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Suitable reverberation time for halls for rock and pop music
Publication: Research - peer-review › Journal article – Annual report year: 2010

Temporal adaptation of the click-evoked otoacoustic emission level-curve reveals dynamic properties of human cochlear processing
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2010
The Danish hearing in noise test
Publication: Research - peer-review › Journal article – Annual report year: 2011

The Effect of a Voice Activity Detector on the Speech Enhancement
Publication: Research - peer-review › Journal article – Annual report year: 2010

The influence of spectral and spatial characteristics of early reflections on speech intelligibility
Arweiler, I., Buchholz, J. & Dau, T. 2010
Publication: Research - peer-review › Poster – Annual report year: 2010

The Low Pitch of High-Frequency Complex Tones Relies on Temporal Fine Structure Information
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Nielsen, J. B. & Dau, T. Dec 2009 Kgs. Lyngby, Denmark: Technical University of Denmark (DTU). 122 p. (Contributions to hearing research; No. 5).
Publication: Research › Ph.D. thesis – Annual report year: 2009

Spectro-temporal analysis of complex sounds in the human auditory system
Publication: Research › Ph.D. thesis – Annual report year: 2009

Peripheral auditory processing and speech reception in impaired hearing
Publication: Research › Ph.D. thesis – Annual report year: 2009

A loudspeaker-based room auralization system for auditory perception research
Publication: Research › Article in proceedings – Annual report year: 2009

An Efficient Algorithm for the Discrete Gabor Transform using full length Windows
Publication: Research - peer-review › Conference article – Annual report year: 2009

Comparison of cochlear delay estimates using otoacoustic emissions and auditory brainstem responses
Publication: Research › Journal article – Annual report year: 2009

Detection and identification of monaural and binaural pitch contours in dyslexic listeners
Santurette, S., Dau, T., Poelmans, H., Luts, H. & Wouters, J. 2009
Publication: Research › Sound/Visual production (digital) – Annual report year: 2009

Development of a Danish speech intelligibility test
Publication: Research - peer-review › Journal article – Annual report year: 2009

Digital Signal Processing for Hearing Instruments
Publication: Research - peer-review › Editorial – Annual report year: 2009
Distance Perception in a loudspeaker-based room auralization system
Publication: Research › Article in proceedings – Annual report year: 2009

Effects of pulsing of the target tone on the audibility of partials in inharmonic complex tones
Publication: Research - peer-review › Journal article – Annual report year: 2009

Equivalent threshold sound pressure levels (ETSPL) for Sennheiser HDA 280 supra-aural audiometric earphones in the frequency range 125 Hz to 8000 Hz
Publication: Research - peer-review › Journal article – Annual report year: 2009

Estimation of cochlear response times using lateralization of frequency-mismatched tones
Publication: Research - peer-review › Journal article – Annual report year: 2009

Fishing for meaningful units in connected speech
Publication: Research - peer-review › Article in proceedings – Annual report year: 2009

Focused Stimulation in Auditory Implants
Publication: Research › Article in proceedings – Annual report year: 2009

Frequency Selective Filtering of the Modulation Spectrum and its Impact on Consonant Identification
Publication: Research - peer-review › Article in proceedings – Annual report year: 2009

Importance of temporal fine structure information for the low pitch of high-frequency complex tones
Santurette, S. 2009
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Publication: Research - peer-review › Article in proceedings – Annual report year: 2009

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Publication: Research - peer-review › Article in proceedings – Annual report year: 2009

Perceptual effects of Ambisonics on Room Auralization
Favrot, S. E. & Buchholz, J. 2009
Publication: Research › Poster – Annual report year: 2009
Precise Stimulation in Auditory Neuroimplants
Publication: Research › Article in proceedings – Annual report year: 2009

Processing of Binaural Pitch Stimuli in Hearing-Impaired Listeners
Publication: Research › Conference abstract in proceedings – Annual report year: 2009

Recent concepts and challenges in hearing research
Dau, T. 2009
Publication: Research › Conference abstract for conference – Annual report year: 2009

Relation between derived-band auditory brainstem response latencies and behavioral frequency selectivity
Publication: Research - peer-review › Journal article – Annual report year: 2009

Relations between frequency selectivity, temporal fine-structure processing, and speech reception in impaired hearing
Publication: Research - peer-review › Conference article – Annual report year: 2009

Simulation of Auditory-Visual
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Speech intelligibility enhancement by early reflections
Arweiler, I., Buchholz, J. & Dau, T. 2009
Publication: Research › Poster – Annual report year: 2009

Strategies and Results for the Evaluation of the Naturalness of the LIPPS Facial Animation System
Publication: Research › Article in proceedings – Annual report year: 2009

Temporal Adaptation in Click-Evoked Otoacoustic Emissions
Publication: Research › Conference abstract for conference – Annual report year: 2009

TESTPERSON OPERATED 2-ALTERNATIVE FORCED CHOICE AUDIOMETRY COMPARED TO TRADITIONAL AUDIOMETRY
Schmidt, J. H., Brandt, C., Jacob Christensen-Dalsgaard, J., Andersen, T., Bælum, J. & Poulsen, T. 2009
Publication: Research › Poster – Annual report year: 2009

Validation of a loudspeaker-based room auralization system using speech intelligibility measures
Publication: Research › Article in proceedings – Annual report year: 2009

Deriving cochlear delays in humans using otoacoustic emissions and auditory evoked potentials
Publication: Research › Ph.D. thesis – Annual report year: 2008

Amplitude modulation depth discrimination in hearing-impaired and normal-hearing listeners
A virtual auditory environment for investigating the auditory signal processing of realistic sounds
Favrot, S. E. 2008
Publication: Research › Conference abstract for conference – Annual report year: 2008

Estimating the basilar-membrane input-output function in normal-hearing and hearing-impaired listeners
Jepsen, M. L. & Dau, T. 2008
Publication: Research › Conference abstract for conference – Annual report year: 2008

Fine-structure processing, frequency selectivity and speech perception in hearing-impaired listeners
Publication: Research - peer-review › Journal article – Annual report year: 2008

Influence of the task of the listener on preference for gain at soft input levels
Publication: Research - peer-review › Article in proceedings – Annual report year: 2007

Modelling across–and within–channel mechanisms in comodulation masking release
Publication: Research › Article in proceedings – Annual report year: 2008

Open-plan office environments: A laboratory experiment to examine the effect of office noise and temperature on human perception, comfort and office work performance
Publication: Research - peer-review › Article in proceedings – Annual report year: 2008

Pitch perception in hearing-impaired listeners
Santurette, S. & Dau, T. 2008
Publication: Research › Sound/Visual production (digital) – Annual report year: 2008

Questionnaire investigation of musicians’ use of hearing protectors, self reported hearing disorders and their experience of their working environment
Publication: Research - peer-review › Journal article – Annual report year: 2008

Relating the absence of binaural pitch percept to retro-cochlear impairment
Santurette, S. & Dau, T. 2008
Publication: Research - peer-review › Poster – Annual report year: 2008

The perceptual flow of phonetic feature processing
Publication: Research - peer-review › Journal article – Annual report year: 2008

Information from Impact Sounds: Normal and Impaired Hearing
Publication: Research › Ph.D. thesis – Annual report year: 2007

Hearing aid processing of loud speech and noise signals: Consequences for loudness perception and listening comfort.
Publication: Research › Ph.D. thesis – Annual report year: 2007

Constrained ICA for the Analysis of High Stimulus Rate Auditory Evoked Potentials
Linguistic Scene Analysis and the Importance of Synergy

Mechanisms of within- and across-channel processing in comodulation masking release

Training of Speechreading for Severely Hearing-Impaired Persons by Human and Computer

Distant teaching of chamber music via local area networks

Melody recognition with binaural-pitch stimuli in normal-hearing and hearing-impaired listeners
Santurette, S. & Dau, T. 2006

Auditory object formation affects modulation perception

Principles of modulation processing in monaural vs. binaural hearing

A Model for the representation of Speech Signals in Normal and Impaired Ears
Christiansen, T. U. & Poulsen, T. May 2004

Benefit from amplification of high frequencies in hearing impaired: aspects of dead regions and auditory acclimatization
Vestergaard, M. D., Poulsen, T. & Naylor, G. Apr 2004

International hearing protector standardization

Occlusion effects, Part II: A study of the occlusion effect mechanism and the influence of the earmould properties

Occlusion effects, Part I
On the relations among temporal integration for loudness, loudness discrimination, and the form of the loudness function.

Publication: Research - peer-review › Journal article – Annual report year: 1996

Hearing aid measurements with speech and noise signals

Publication: Research - peer-review › Journal article – Annual report year: 1994

Hearing Threshold and Equal Loudness Level Contours of 1/3-octave Noise Bands in a Diffuse Sound Field

Publication: Research - peer-review › Journal article – Annual report year: 1994

Projects:

Clinical auditory profiling and hearing-aid fitting strategies
Sanchez Lopez, R.
01/07/2016 → 01/07/2019
Project

Spatial release from masking in complex acoustical scenes and the effect of hearing aid processing
Löw, V., Dau, T., Westermann, A., Marschall, M. & Cubick, J.
04/01/2016 → 04/07/2016
Project

The influence of visual cues on sound externalization
Gil Carvajal, J. C., Cubick, J., Santurette, S. & Dau, T.
26/01/2015 → 26/07/2015
Project

Comparison of binaural microphones for externalization of sound
Sánchez Rodríguez, C., Cubick, J., Song, W. & MacDonald, E.
08/01/2015 → 05/07/2015
Project

Evaluation of a clinical auditory profile in hearing-aid candidates
Santurette, S., Thorup, N. & Friis, M.
03/02/2014 → 19/12/2014
Project

Activities:

A correlation metric in the envelope power spectrum domain for speech intelligibility prediction
Iborra, H. R. (Guest lecturer)
2017
Activity: Talks and presentations › Talks and presentations in private or public companies and organisations

A correlation metric in the envelope power spectrum domain for speech intelligibility prediction
Iborra, H. R. (Guest lecturer)
2017
Activity: Talks and presentations › Conference presentations

Extending a computational model of auditory processing towards speech intelligibility prediction
Iborra, H. R. (Guest lecturer)
2017
Activity: Talks and presentations › Conference presentations

Proceedings of the International Symposium on Auditory and Audiological Research (Journal)
Santurette, S. (Editor), Dau, T. (Editor)
2017 → …
Activity: Research › Series editor

An extended test battery for characterizing hearing deficits
Sanchez Lopez, R. (Speaker), Bianchi, F. (Other), Fereczkowski, M. (Other), Santurette, S. (Other), Dau, T. (Other)
29 Sep 2017
Activity: Talks and presentations › Conference presentations

University of Salamanca
Iborra, H. R. (Visiting researcher)
1 Sep 2017 → 31 Dec 2017
Activity: Visiting an external institution › Visiting another research institution

Trends in Hearing (Journal)
Iborra, H. R. (Reviewer)
Aug 2017
Activity: Research › Peer review of manuscripts

Auditory profiling through computational data analysis
Sanchez Lopez, R. (Other), Bianchi, F. (Other), Fereczkowski, M. (Other), Santurette, S. (Other), Dau, T. (Other)
19 Aug 2017
Activity: Talks and presentations › Conference presentations

The speech-based envelope power spectrum model (sEPSM) family: Development, achievements, and current challenges
Iborra, H. R. (Guest lecturer)
29 Jun 2017
Activity: Talks and presentations › Conference presentations

Listening to music with a cochlear implant: Limitations and possible solutions
Marozeau, J. (Invited speaker), Santurette, S. (Invited speaker)
8 Mar 2017
Activity: Talks and presentations › Conference presentations

Nordiske Konference - Hørelse, kognition, kommunikation
Lamping, W. (Participant), Steffen Spangmose Pedersen (Participant)
8 Mar 2017
Activity: Attending an event › Participating in or organising a conference

Cochlear
Bentsen, T. (Visiting researcher)
23 Jan 2017 → 13 May 2017
Activity: Visiting an external institution › Visiting another research institution

ARCHES/ICANHEAR 2016
Paredes Gallardo, A. (Participant)
21 Nov 2016 → 23 Nov 2016
Activity: Attending an event › Participating in or organising a conference

Music and CI symposium
Paredes Gallardo, A. (Participant)
Beyond the audiogram: How can we achieve better hearing rehabilitation?
Santurette, S. (Invited speaker)
9 Sep 2016
Activity: Talks and presentations › Conference presentations

Dansk Teknisk Audiologisk Selskab
Sanchez Lopez, R. (Participant)
9 Sep 2016
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

Effects of musical experience on pitch discrimination
Santurette, S. (Invited speaker)
9 Sep 2016
Activity: Talks and presentations › Conference presentations

Interspeech 2016
Bentsen, T. (Participant)
8 Sep 2016 → 12 Sep 2016
Activity: Attending an event › Participating in or organising a conference

Poster presentation
Bentsen, T. (Speaker)
8 Sep 2016 → 12 Sep 2016
Activity: Talks and presentations › Conference presentations

Academic communication and effective presenting
Paredes Gallardo, A. (Participant)
8 Aug 2016 → 16 Aug 2016
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

Improving Cochlear Implant Performance
Paredes Gallardo, A. (Participant)
1 Jul 2016
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

International Symposium on Objective Measures in Auditory Implants
Paredes Gallardo, A. (Speaker)
15 Jun 2016 → 18 Jun 2016
Activity: Talks and presentations › Conference presentations

Predicting speech intelligibility based on a correlation metric in the modulation power domain
Iborra, H. R. (Guest lecturer)
5 Apr 2016
Activity: Talks and presentations › Talks and presentations in private or public companies and organisations

Teaching and learning DTU
Paredes Gallardo, A. (Participant)
8 Mar 2016 → 11 Mar 2016
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

The Danavox Jubilee Foundation (Publisher)
Santurette, S. (Editor)
2015 → 2016
Activity: Research › Series editor
EP Master class IV: Cortical Evoked Potentials
Paredes Gallardo, A. (Participant)
3 Dec 2015
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

Talk at Audiological Research Cores in Europe
Bentsen, T. (Speaker)
17 Nov 2015
Activity: Talks and presentations › Conference presentations

INTERSPEECH 2015
Bentsen, T. (Participant)
6 Sep 2015 → 10 Sep 2015
Activity: Attending an event › Participating in or organising a conference

Analysis of correlated data: Mixed Linear Models
Paredes Gallardo, A. (Participant)
1 Sep 2015 → 25 Dec 2015
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

Communicating Advanced Topics in Electrical Engineering
Paredes Gallardo, A. (Participant)
1 Sep 2015 → 25 Dec 2015
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

Evaluation of peripheral compression and auditory nerve fiber intensity coding using Auditory Steady-State Responses (ASSR)
Encina Llamas, G. (Speaker)
27 Aug 2015
Activity: Talks and presentations › Conference presentations

5th International Symposium on Auditory and Audiological Research
Paredes Gallardo, A. (Participant)
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

The Analysis of Sensory and Consumer Data
Paredes Gallardo, A. (Participant)
17 Aug 2015 → 21 Aug 2015
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

Introduction to applied statistics and R for PhD students
Paredes Gallardo, A. (Participant)
4 Jun 2015 → 28 Jun 2015
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

Evaluation of cochlear processing and auditory nerve fiber intensity coding using Auditory Steady-State Responses (ASSR)
Encina Llamas, G. (Speaker)
11 May 2015
Activity: Talks and presentations › Conference presentations

Improving Performance with Cochlear Implants
Paredes Gallardo, A. (Participant)
21 Apr 2015
Activity: Attending an event › Participating in or organising workshops, courses, seminars etc.

Fra øre til hjerne: tværfaglig forskning i hørelse og kognition
Santurette, S. (Invited speaker)
18 Mar 2015
Activity: Talks and presentations › Conference presentations

7th Workshop on Speech in Noise
Santurette, S. (Organizer)
8 Jan 2015 → 9 Jan 2015
Activity: Attending an event › Participating in or organising a conference

SPeech In Noise
Bentsen, T. (Participant)
8 Jan 2015 → 9 Jan 2015
Activity: Attending an event › Participating in or organising a conference

5th International Symposium on Auditory and Audiological Research
Santurette, S. (Organizer)
2014 → 2015
Activity: Attending an event › Participating in or organising a conference

Concepts and computational models of robust bottom-up signal encoding
Santurette, S. (Organizer)
30 Jan 2014 → 1 Feb 2014
Activity: Attending an event › Participating in or organising a conference

The Danavox Jubilee Foundation (Publisher)
Santurette, S. (Editor)
2013 → 2014
Activity: Research › Series editor

21st International Congress on Acoustics
Le Goff, N. (Speaker)
2 Jun 2013 → 7 Jun 2013
Activity: Talks and presentations › Conference presentations

36th Annual Midwinter Meeting of the Association for Research in Otolaryngology
Le Goff, N. (Participant)
16 Feb 2013 → 20 Feb 2013
Activity: Attending an event › Participating in or organising a conference

International Symposium on Auditory and Audiological Research
Santurette, S. (Organizer)
2012 → 2013
Activity: Attending an event › Participating in or organising a conference

6th Annual Meeting of the Audiological Research Cores in Europe
Santurette, S. (Organizer)
Nov 2012
Activity: Attending an event › Participating in or organising a conference

Spontane Otoakustische Emissionen - generiert durch aktive Oszillatoren gruppiert in Frequenzplateaus
Epp, B. (Invited speaker)
12 Mar 2012
Activity: Talks and presentations › Conference presentations
35th MidWinter Meeting of the Association for Research in Otolaryngology
Bianchi, F. (Participant)
Feb 2012
Activity: Attending an event › Participating in or organising a conference

Assistive Technology for People with Vision and Hearing Impairments
Bothe, H. (Speaker)
5 Sep 2010
Activity: Talks and presentations › Conference presentations

Lippenlesen im Dialog mit dem Computer
Bothe, H. (Speaker)
9 Aug 2010
Activity: Talks and presentations › Talks and presentations in private or public companies and organisations

ThinkingHead – eine dialogfähige Computeranimation, die für das Erlernen des Absehens eingesetzt werden kann
Bothe, H. (Speaker)
7 Feb 2010
Activity: Talks and presentations › Conference presentations

Models for the dynamics of articulator lip movements
Bothe, H. (Speaker)
5 Jul 2009
Activity: Talks and presentations › Conference presentations

Auditory neuroprostheses
Bothe, H. (Speaker)
3 May 2009
Activity: Talks and presentations › Conference presentations

ISO TC 43/WG 1: Threshold of hearing (External organisation)
Poulsen, T. (Participant)
1980 → …
Activity: Membership › Membership of committees, commissions, boards, councils, associations, organisations, or similar

ISO TC43/SC 1/WG 17: Methods of measurement of sound attenuation of hearing protectors (External organisation)
Poulsen, T. (Participant)
1975 → …
Activity: Membership › Membership of committees, commissions, boards, councils, associations, organisations, or similar

Prizes:

ISAAR scholarship
Helia Relano Iborra (Recipient), 2017
Prize: Prizes, scholarships, distinctions

Press clippings:

Nærørene kommer
Sébastien Santurette
17/05/2014
1 media contribution
Press / Media