Ewen MacDonald - DTU Orbit (04/02/2018)

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Publications:

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

Effects of slow- and fast-acting compression on hearing impaired listeners’ consonant-vowel identification in interrupted noise
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

Laterized 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

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

Response to Comment: RE: Ohlenforst et al. (2016) Exploring the Relationship Between Working Memory, Compressor Speed, and Background Noise Characteristics, Ear Hear 37, 137–143
Publication: Research - peer-review › Letter – Annual report year: 2017

Methodology and apparatus for determining psychoacoustical threshold curves
Publication: Research › Patent – 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

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

Exploring the Relationship Between Working Memory, Compressor Speed, and Background Noise Characteristics
Publication: Research - peer-review › Journal article – Annual report year: 2016
Grid – a fast threshold tracking procedure
Publication: Research - peer-review › Article in proceedings – 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
Publication: Research › Poster – Annual report year: 2016

Modelling the Perceptual Components of Loudspeaker Distortion
Publication: Research - peer-review › Article in proceedings – 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 masking release of lateralized speech
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

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

Comparison of binaural microphones for externalization of sounds
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Compensation of F0 and formant frequencies in a real-time pitch-perturbation paradigm
Publication: Research - peer-review › Article in proceedings – Annual report year: 2015

Face configuration affects speech perception: Evidence from a McGurk mismatch negativity study
Publication: Research - peer-review › Journal article – Annual report year: 2014

Formant compensation for auditory feedback with English vowels
Publication: Research - peer-review › Journal article – 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
Publication: Research - peer-review › Journal article – Annual report year: 2015
Reproduction of Realistic Background Noise for Testing Telecommunications Devices
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

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

Auditory Perception of Statistically Blurred Sound Textures
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

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

Electrophysiological assessment of audiovisual integration in speech perception
Publication: Research › Ph.D. thesis – Annual report year: 2014

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

Interaction of Working Memory, Compressor Speed and Background Noise Characteristics
Publication: Research - peer-review › Poster – 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

Temporal control and compensation for perturbed voicing feedback
Publication: Research - peer-review › Journal article – Annual report year: 2014

Contribution of envelope periodicity to release from speech-on-speech masking
Publication: Research - peer-review › Journal article – Annual report year: 2013

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

Multimodal speech perception
Publication: Research - peer-review › Book chapter – Annual report year: 2013

Multivoxel Patterns Reveal Functionally Differentiated Networks Underlying Auditory Feedback Processing of Speech
Publication: Research - peer-review › Journal article – Annual report year: 2013

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

Spectral information for detection of acoustic time to arrival
Publication: Research - peer-review › Journal article – Annual report year: 2013
Spectrogram inversion and potential applications for hearing research
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

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 Relationship Between Background Noise Envelope Power and Speech Intelligibility in Adverse Conditions
Publication: Research › peer-review › Poster – Annual report year: 2013

A Preliminary Study of Individual Responses to Real-Time Pitch and Formant Perturbations
Publication: Research › peer-review › Article in proceedings – Annual report year: 2012

Children's Development of Self-Regulation in Speech Production
Publication: Research › peer-review › Journal article – Annual report year: 2012

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

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

Perceiving a stranger's voice as being one's own: a 'rubber voice' illusion?
Publication: Research › peer-review › Journal article – Annual report year: 2011

Probing the independence of formant control using altered auditory feedback
Publication: Research › peer-review › Journal article – Annual report year: 2011

A cross-language study of compensatory response to formant-shifted feedback
Publication: Research › peer-review › Article in proceedings – Annual report year: 2010

Compensations in response to real-time formant perturbations of different magnitudes
Publication: Research › peer-review › Journal article – Annual report year: 2010

Effects on speech intelligibility of temporal jittering and spectral smearing of the high-frequency components of speech
Publication: Research › peer-review › Journal article – Annual report year: 2010

A cross-language study of compensatory response to formant-shifted feedback.: Program abstracts of the 157th meeting of the Acoustical Society of America
Publication: Research › peer-review › Poster – Annual report year: 2009

Sensory Aging: Hearing
Publication: Research › peer-review › Book chapter – Annual report year: 2009

Talkers alter vowel production In response to real-time formant perturbation even when instructed not to compensate
Publication: Research › peer-review › Journal article – Annual report year: 2009
Auditory temporal processing deficits in older listeners: From a review to a future view of Presbycusis
Publication: Research - peer-review › Article in proceedings – Annual report year: 2008

Noise exposure of opera musicians
Publication: Research - peer-review › Journal article – Annual report year: 2008

Probing the independence of formant control
Publication: Research - peer-review › Poster – Annual report year: 2008

The specificity of adaptation to real-time formant shifting
Publication: Research - peer-review › Article in proceedings – Annual report year: 2008

Intensity discrimination in noise: Effect of aging
Publication: Research - peer-review › Article in proceedings – Annual report year: 2007

Temporal jitter disrupts speech intelligibility: A simulation of auditory aging
Publication: Research - peer-review › Journal article – Annual report year: 2007

The specificity of sensorimotor learning: Generalization in auditory feedback adaptation
Publication: Research - peer-review › Conference abstract in proceedings – Annual report year: 2007

Noise Exposure of Music Teachers
Publication: Research - peer-review › Journal article – Annual report year: 2004

Projects:

The effect of hearing loss and noise on conversational dynamics
Project: PhD

Comparison of binaural microphones for externalization of sound
Project

Assessing hearing-aid signal processing based on variations of the Turing test
Project: PhD

Effects of hearing aid signal processing on temporal auditory perception
Project: PhD

Analysis of the auditory system via synthesis of natural sounds, speech and music
Project: PhD

Modeling perceptual externalization in the normal, impaired and aided-impaired auditory system
Project: PhD

Room acoustic simulation tool for optimization of absorbent ceiling
Project: PhD

Pitch representations in the impaired auditory system and implications for music perception
Project: PhD
Characterization and prediction of perceptual consequences of individual hearing loss
Project: PhD

Computational auditory scene analysis based on a model of human binaural processing
Project: PhD

Correlations between physical and perceptual parameters of acoustic scenarios. Implications for auditory modelling and sound field design
Project: PhD

Design and evaluation of individualized hearing-aid signal processing and fitting
Project: PhD

Temporal Coherence in the Perceptual Organization of Auditory Scenes in Normal, Impaired, and Aided-Impaired Hearing
Project: PhD

Neurale og perceptuelle aspekter af audiovisuel taleperception
Project: PhD

Characterizing human auditory processing in reverberant environments with multiple sound sources
Project: PhD

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

Modelling human auditory-evoked brain responses to complex sounds
Project: PhD