

# ACTA ACUSTICA

UNITED WITH

# ACUSTICA

*The Journal of the European Acoustics Association (EAA) · International Journal on Acoustics*

## Table of Contents

### Fast Track Articles

<b>K. Qian, Z. Zhang, A. Baird, B. Schuller</b> Active Learning for Bird Sounds Classification .....	361
<b>K. Xu, P. Roussel, B. Denby</b> Is Speckle Tracking Feasible for Ultrasound Tongue Images? .....	365

### Scientific Papers

#### *General Linear Acoustics*

<b>D. Habault, E. Friot, Ph. Herzog, C. Pinhede</b> Active Control in an Anechoic Room: Theory and First Simulations .....	369
---	-----

#### *Nonlinear Acoustics, Macrosonics*

<b>P. L. Rendón, C. G. Malanche, F. Orduña-Bustamante, A. Pérez-López</b> Spectral Enrichment of Transient Acoustic Waves as a Function of Input Signal Shape .....	379
<b>S. Lin</b> Study on the Parallel Electric Matching of High Power Piezoelectric Transducers .....	385

#### *Aeroacoustics*

<b>T. Padois, A. Berry</b> Two and Three-Dimensional Sound Source Localization with Beamforming and Several Deconvolution Techniques .....	392
<b>Z.-H. Wang, C.-X. Bi, X.-Z. Zhang, Y.-B. Zhang</b> Sound Field Prediction and Separation in a Moving Medium Using the Time-Domain Equivalent Source Method .....	401

#### *Ultrasonics*

<b>A. Khorram, A. Ramazani S. A, S. Jamshidi, A. K. Moghaddam</b> Modeling and Simulation of Oil Well Stimulation by High Power Ultrasonic Irradiation .....	411
<b>A. Abid, D. Pereira, J. C. Fernandes, P. Belanger</b> Sensitivity Study of Ultrasonic Guided Waves to Cortical Bone Mechanical Properties with Axial and Circumferential Propagation .....	421

#### *Environmental Noise*

<b>P. Aumond, A. Can, B. De Coensel, D. Botteldooren, C. Ribeiro, C. Lavandier</b> Modeling Soundscape Pleasantness Using Perceptual Assessments and Acoustic Measurements Along Paths in Urban Context .....	430
---	-----

# ACTA ACUSTICA

UNITED WITH

# ACUSTICA

*The Journal of the European Acoustics Association (EAA) · International Journal on Acoustics*

<b>S. M. B. Fard, H. Peters, S. Marburg, N. Kessissoglou</b> Acoustic Performance of a Barrier Embedded With Helmholtz Resonators Using a Quasi-Periodic Boundary Element Technique (Open Access) .....	444
<i>Building Acoustics</i>	
<b>F. Schöpfer, C. Hopkins, A. R. Mayr, U. Schanda</b> Measurement of Transmission Functions in Lightweight Buildings for the Prediction of Structure-Borne Sound Transmission From Machinery .....	451
<b>A. Dijckmans</b> Wave Based Modeling of the Sound Insulation of Double Walls With Structural Connections .....	465
<i>Room Acoustics</i>	
<b>H. Dujourdy, B. Pialot, T. Toulemonde, J.-D. Polack</b> An Energetic Wave Equation for Modelling Diffuse Sound Fields – Application to Corridors .....	480
<i>Hearing, Audiology and Psychoacoustics</i>	
<b>D. Pelegrín-García, M. Rychtáriková, C. Glorieux</b> Single Simulated Reflection Audibility Thresholds for Oral Sounds in Untrained Sighted People .....	492
<i>Speech</i>	
<b>F. Köster, D. Guse, S. Möller</b> Identifying Speech Quality Dimensions in a Telephone Conversation (Open Access) .....	506
<b><i>Technical and Applied Papers</i></b>	
<b>J.-D. Kim, S.-M. Hwang, H.-K., B.-J. Kim</b> Development of 3D Acoustic Multi-Domains Analysis Using an Indirect Energy Flow Boundary Element Method .....	523
<b><i>Short Communications</i></b>	
<b>R. P. Oates, S. Ambrose, D. M. Klein</b> Kinetic Molecular Theory of Sound Exposure in Personal Listening Devices (Open Access) .....	531
<b><i>Instructions for Authors</i></b> .....	535
<b><i>Editorial Board</i></b> .....	540
<b><i>European Acoustics Association News</i></b> .....	541