Research publications

**Theses and dissertations**


**Papers Published in Refereed Journals**

1. K.B. Rasmussen, P.M. Juhl
   The effect of head shape on spectral stereo theory

2. P. Juhl
   An axisymmetric integral equation formulation for free space non-axisymmetric radiation and scattering of a known incident wave

3. P. Juhl
   A numerical study of the coefficient matrix of the boundary element method near characteristic frequencies

4. P. Juhl
   A numerical investigation of standard condenser microphones
   *Journal of Sound and Vibration* (1994) **177** (4), pp.433-446

5. P. Juhl
   A note on the convergence of the direct collocation boundary element method

6. F. Jacobsen, V. Cutanda, P. M. Juhl
   A numerical and experimental investigation of the performance of sound intensity probes at high frequencies

7. P. Juhl
   Non-axisymmetric acoustic propagation in and radiation from lined ducts in a subsonic uniform mean flow: An axisymmetric boundary element formulation
   *ACUSTICA • Acta Acustica* (2000) **86** pp.860-869

8. V. Cutanda, P. Juhl, F. Jacobsen
   On the modeling of narrow gaps using the standard boundary element method
9  J.-D. Polack, L. S. Christensen, P. M. Juhl
An innovative design for omnidirectional sound sources
ACUSTICA • Acta Acustica (2001) 87(4) 513-518.

10  S. Q. y Alpera, F. Jacobsen, P. M. Juhl, V. C. Henriquez,
A BEM approach to validate a model for predicting sound propagation over non-flat terrain.

11  P. Juhl, F. Jacobsen
A note on measurement of sound pressure with intensity probes.

12  P. Juhl and F. Jacobsen
A numerical investigation of the influence of windscreens on measurement of sound intensity.

Papers Published in Other Journals

1  F. Jacobsen, V. Cutanda and P.M. Juhl: A sound intensity probe for measuring from 50 Hz to 10 kHz. Brüel &

Conference Papers Published in Proceedings

1  P. Juhl
On selecting CHIEF points to overcome the nonuniqueness problem in boundary element methods

2  P. Juhl
A numerical study of the convergence of boundary element formulations with application to
microphone free-field corrections
Proceedings of the Third International Congress on air- and structure-borne Sound and Vibration
(1994), 2, 807-814

3  F. Jacobsen, V. Cutanda, P. Juhl
A sound intensity probe for measuring from 50 Hz to 10 kHz

4  V. Cutanda, P. Juhl, F. Jacobsen
A numerical investigation of the performance of sound intensity probes at high frequencies

5  P. Juhl
A boundary element model for lined ducts with uniform flow

6  P. Juhl
An introductory study of the convergence of the direct boundary element method
Proceedings of the Fifth International Congress on Sound and Vibration (1997) 2, pp.825-832
7 P. Juhl
Radiation from a lined duct in uniform flow using the boundary element method
Proceedings of the Sixth International Congress on Sound and Vibration (1999) 1, pp.595-602

8 P. Juhl
Iterative solution of the direct collocation BEM equations

9 M. Jensen, P. Juhl
Efficient acoustic BEM calculations on axis-symmetric bodies with non-axisymmetric fields using elliptic integrals and FFT

10 M.A. Sobreira-Seoane, P. Juhl, V.C. Henriquez
Calculation of transfer functions related to a head and torso simulator

11 V. C. Henriquez, P. Juhl
Calculation of visco-thermal losses in thin fluid layers using BEM

12 P. Juhl, S. Q. y Alpera, V. C. Henriquez, F. Jacobsen
On the non-uniqueness problem in a 2-D half-space BEM formulation

13 K. B. Rasmussen, P. Juhl.
An application of boundary element method calculations to hearing aid systems: The influence of the human head.

14 F. Jacobsen, P. Juhl
Sound power measurements using intensity at high frequencies.

15 P. Juhl, F. Jacobsen
A numerical investigation of the influence of windscreens on sound intensity measurements.

16 P. Juhl, F. Jacobsen
Sound pressure measurements with sound intensity probes.

17 P. Juhl, S.O. Petersen, J. Hald
Localizing sound sources in 3-D space using spherical harmonic beamforming

Technical Reports

1 P. Juhl
Axisymmetric integral formulation for non-axisymmetric boundary conditions

2  P. Juhl
   Numerical liner study

3  P. Juhl
   Boundary element model for uniform flow

**Lecture Notes**

1  F. Jacobsen and P. Juhl
   Radiation of sound.
   *Acoustic Technology, Ørsted•DTU, Technical University of Denmark*, 2006. (70 pp.)