



Open Journal of Acoustics



ISSN:2162-5786



Journal Editorial Board

ISSN 2162-5786 (Print) ISSN 2162-5794 (Online)

<http://www.scirp.org/journal/oja>

Editor-in-Chief

Dr. Wen L. Li

Wayne State University, USA

Editorial Board

Prof. Antonio Carcaterra

University 'La Sapienza', Italy

Dr. Kui-Fu Chen

China Agricultural University, China

Prof. Roger H. L. Chen

West Virginia University, USA

Dr. Rodrigo Costa-Felix

National Institute for Metrology, Quality and Technology, Brazil

Prof. Mohammad Hadi Dehghani

Tehran University of Medical Sciences, Iran

Prof. Massimo Garai

University of Bologna, Italy

Dr. Jose V. Garcia-Perez

Polytechnic University of Valencia, Spain

Dr. Luís Manuel Cortesão Godinho

University of Coimbra, Portugal

Dr. Guoyong Jin

Harbin Engineering University, China

Prof. Lok C. Lew Yan Voon

Wright State University, USA

Prof. Feng-Ming Li

Harbin Institute of Technology, China

Dr. Yi-Yang Li

The Chinese University of Hong Kong, China

Dr. Tian Ran (Terry) Lin

Queensland University of Technology, Australia

Prof. Cheuk-Ming Mak

The Hong Kong Polytechnic University, China

Dr. Víctor J. Sánchez Morcillo

Polytechnic University of Valencia, Spain

Dr. Qiao Sun

University of Calgary, Canada

Dr. Eng Leong Tan

Nanyang Technological University, Singapore

Dr. Antonio Uris

Polytechnic University of Valencia, Spain

Prof. Morten Willatzen

University of Southern Denmark, Denmark

Prof. Shefeng Yan

Chinese Academy of Sciences, China

Table of Contents

Volume 4 Number 4

December 2014

The Analysis of the Noise Generation in Gas Turbine Stage

S. Dykas, D. Machalica.....155

Urban Noise in a Metropolitan Towns

L. Ravinder, M. G. Belachew.....163

Measurement of Surface SH-Wave Velocities Generated on the Surface of Japanese Cypress Column

M. Hasegawa, J. Matsumura.....177

Theory and Simulation Analysis of the Mode Shape and Normal Shape Actuators and Sensors

J. M. Jou.....184

Optimizing the PMCC Algorithm for Infrasound and Seismic Nuclear Treaty Monitoring

A. M. Runco Jr., J. A. Louthain, D. A. Clauter.....204

Open Journal of Acoustics (OJA)

Journal Information

SUBSCRIPTIONS

The *Open Journal of Acoustics* (Online at Scientific Research Publishing, www.SciRP.org) is published quarterly by Scientific Research Publishing, Inc., USA.

Subscription rates:

Print: \$79 per issue.

To subscribe, please contact Journals Subscriptions Department, E-mail: sub@scirp.org

SERVICES

Advertisements

Advertisement Sales Department, E-mail: service@scirp.org

Reprints (minimum quantity 100 copies)

Reprints Co-ordinator, Scientific Research Publishing, Inc., USA.

E-mail: sub@scirp.org

COPYRIGHT

COPYRIGHT AND REUSE RIGHTS FOR THE FRONT MATTER OF THE JOURNAL:

Copyright © 2014 by Scientific Research Publishing Inc.

This work is licensed under the Creative Commons Attribution International License (CC BY).

<http://creativecommons.org/licenses/by/4.0/>

COPYRIGHT FOR INDIVIDUAL PAPERS OF THE JOURNAL:

Copyright © 2014 by author(s) and Scientific Research Publishing Inc.

REUSE RIGHTS FOR INDIVIDUAL PAPERS:

Note: At SCIRP authors can choose between CC BY and CC BY-NC. Please consult each paper for its reuse rights.

DISCLAIMER OF LIABILITY

Statements and opinions expressed in the articles and communications are those of the individual contributors and not the statements and opinion of Scientific Research Publishing, Inc. We assume no responsibility or liability for any damage or injury to persons or property arising out of the use of any materials, instructions, methods or ideas contained herein. We expressly disclaim any implied warranties of merchantability or fitness for a particular purpose. If expert assistance is required, the services of a competent professional person should be sought.

PRODUCTION INFORMATION

For manuscripts that have been accepted for publication, please contact:

E-mail: oja@scirp.org



Call for Papers

Open Journal of Acoustics

ISSN 2162-5786 (Print) ISSN 2162-5794 (Online)

<http://www.scirp.org/journal/oja>

Open Journal of Acoustics (OJA) is an international journal dedicated to the latest advancement of acoustics. The goal of this journal is to provide a platform for scientists and academicians all over the world to promote, share, and discuss various new issues and developments in different areas of acoustics.

Editor-in-Chief

Dr. Wen L. Li

Wayne State University, USA

Editorial Board

Prof. Antonio Carcaterra
Dr. Kui-Fu Chen
Prof. Roger H. L. Chen
Dr. Rodrigo Costa-Felix
Prof. Mohammad Hadi Dehghani
Prof. Massimo Garai
Dr. Jose V. Garcia-Perez
Dr. Luis Manuel Cortesão Godinho
Dr. Guoyong Jin
Prof. Lok C. Lew Yan Voon
Prof. Feng-Ming Li
Dr. Yi-Yang Li
Dr. Tian Ran (Terry) Lin
Prof. Cheuk-Ming Mak
Dr. Víctor J. Sánchez Morcillo
Dr. Qiao Sun
Dr. Eng Leong Tan
Dr. Antonio Uribe
Prof. Morten Willatzen
Prof. Shefeng Yan

University 'La Sapienza', Italy
China Agricultural University, China
West Virginia University, USA
National Institute for Metrology, Quality and Technology, Brazil
Tehran University of Medical Sciences, Iran
University of Bologna, Italy
Polytechnic University of Valencia, Spain
University of Coimbra, Portugal
Harbin Engineering University, China
Wright State University, USA
Harbin Institute of Technology, China
The Chinese University of Hong Kong, China
Queensland University of Technology, Australia
The Hong Kong Polytechnic University, China
Polytechnic University of Valencia, Spain
University of Calgary, Canada
Nanyang Technological University, Singapore
Polytechnic University of Valencia, Spain
University of Southern Denmark, Denmark
Chinese Academy of Sciences, China

Subject Coverage

This journal invites original research and review papers that address the following issues in acoustics. Topics of interest include, but are not limited to:

- Acoustic and Speech Signal Processing
- Acoustic Material
- Acoustic Measurement
- Acoustic Problems in Information Science
- Acoustic Signal Processing
- Acoustic Transducer, Acoustic Measurements and Methods
- Architectural Acoustics and Electroacoustics
- Fluid Dynamics and Acoustics
- Infrasonics
- Linear Acoustics
- Musical Acoustics
- Noise, Noise Effects and Control
- Nonlinear Acoustics
- Other Physical and Acoustic-Related Issues and Cross-Disciplinary
- Physical, Psychological Acoustics and Bioacoustics
- Sound of Water and Marine Acoustics
- Structural Acoustics and Vibration
- Ultrasonics in Medicine
- Ultrasonics, Quantum Acoustics and Acoustic Effects

We are also interested in short papers (letters) that clearly address a specific problem, and short survey or position papers that sketch the results or problems on a specific topic. Authors of selected short papers would be invited to write a regular paper on the same topic for future issues of the **OJA**.

Notes for Intending Authors

Submitted papers should not have been previously published nor be currently under consideration for publication elsewhere. Paper submission will be handled electronically through the website. All papers are refereed through a peer review process. For more details about the submissions, please access the website.

Website and E-Mail

<http://www.scirp.org/journal/oja>

Email: oja@scirp.org

What is SCIRP?

Scientific Research Publishing (SCIRP) is one of the largest Open Access journal publishers. It is currently publishing more than 200 open access, online, peer-reviewed journals covering a wide range of academic disciplines. SCIRP serves the worldwide academic communities and contributes to the progress and application of science with its publication.

What is Open Access?

All original research papers published by SCIRP are made freely and permanently accessible online immediately upon publication. To be able to provide open access journals, SCIRP defrays operation costs from authors and subscription charges only for its printed version. Open access publishing allows an immediate, worldwide, barrier-free, open access to the full text of research papers, which is in the best interests of the scientific community.

- High visibility for maximum global exposure with open access publishing model
- Rigorous peer review of research papers
- Prompt faster publication with less cost
- Guaranteed targeted, multidisciplinary audience



**Scientific
Research**

Website: <http://www.scirp.org>

Subscription: sub@scirp.org

Advertisement: service@scirp.org