12-16 July 2020 27th International Congress on Sound and Vibration The annual congress of the International Institute of Acoustics and Vibration (IIAV) CITY OF ONE **HUNDRED SPIRES** WELCOME TO ICSV27 12-16 JULY 2020

International Journal of Acoustics and Vibration



- A Fault Diagnosis Approach for Rolling Bearing Based on Wavelet Packet Decomposition and GMM-HMM
- Optimum Tuning of a Gyroscopic Vibration Absorber for Vibration Control of a Vertical Cantilever Beam with Tip Mass
- A Mixed Layerwise-Differential Quadrature Method for 3-D Vibration and Buckling Analyses of Orthogonally Stiffened Composite Conical Shell
- Bifurcation Analysis of a Transversely Cracked Nonlinear Jeffcott Rotor System at Different Resonance Cases
- Stability Analysis of a Tapered Symmetric Sandwich Beam Resting on a Variable Pasternak Foundation
- Parametric Vibrations of Axially Moving Beams with Multiple Edge Cracks
- Suppression of Vibrations Induced by Fluctuating Wind for Long-Span Cable-Stayed Bridge Using MR Dampers
- Unbalanced Vibration Response Reduction of Rotor Using Active Magnetic Actuator Based on PD Control
- Vibration and Buckling of Skew Plates Under Linearly Varying Edge Compression
- Electromechanical Modeling and High Speed Design of a Tubular Ultrasonic Motor
- Application of Variational Mode Decomposition and Permutation Entropy for Rolling Bearing Fault Diagnosis
- A Fault Diagnosis Method Based on Improved Pattern Spectrum and FOA-SVM
- Lamb Waves Topological Imaging of Multiple Blind Defects in an Isotropic Plate
- Fault Diagnostics of Wind Turbine Drive-Train using Multivariate Signal Processing
- Do Sound Segments Contribute to Sounding Charismatic? Evidence from a Case Study of Steve Jobs' and Mark Zuckerberg's Vowel Spaces
- Vibration Characteristic of a Transition Constrained Damping Beam Based on the Shear Dissipating Energy Assumption
- An Intelligent Detection System Development for Local Faults in a Ball Bearing

June 2019

Volume 24, Number 2

The International Institute of Acoustics and Vibration.

The Czech Acoustical Society and The Czech Society

engineers from all over the world to attend the 27th

for Mechanics are pleased to invite scientists and

International Congress on Sound and Vibration

(ICSV27) to be held in Prague, Czech Republic.



International Journal of Acoustics and Vibration

The International Refereed Journal of the International Institute of Acoustics and Vibration (IIAV) Indexed and abstracted in WoS, Science Citation Index Expanded, Current Contents — Engineering, Computing & Technology, and Scopus

EDITOR-IN-CHIEF Jorge P. Arenas

Institute of Acoustics
University Austral of Chile
PO Box 567, Valdivia 509000, Chile
Telephone: +56 632 221 012
Fax: +56 632 21 013
E-mail: jparenas@uach.cl

EDITOR-IN-CHIEF EMERITUS

Malcolm J. Crocker E-mail: ijav@eng.auburn.edu

ASSOCIATE EDITOR – Book Reviews

Zhuang Li

E-mail: Li.Zhuang.yuxie@gmail.com

EDITORIAL ASSISTANT Margarita Maksotskaya Tieanna Graphenreed Morgan Shaffer Linwood Stevens Elizabeth Robb

April Garrett E-mail: vibrate@auburn.edu

MANAGING EDITOR Marek Pawelczyk

Institute of Automatic Control Silesian University of Technology ul. Akademicka 16, 44-100 Gliwice, POLAND Telephone: +48 32 237 2398 Fax: +48 32 237 2127

ASSOCIATE EDITOR

Dariusz Bismor

E-mail: Dariusz.Bismor@polsl.pl

E-mail: Marek.Pawelczyk@polsl.pl

ASSISTANT EDITORS Teresa Glowka

Sebastian Kurczyk Karol Jablonski Sara Bysko Anna Chrapońska Szymon Ogonowski

IJAV WEBSITE www.iiav.org/ijav

The International Journal of Acoustics and Vibration is the refereed journal of the International Institute of Acoustics and Vibration (IIAV). The IIAV is a non-profit international scientific society founded in 1995. The primary objective of the Institute is to advance the science of acoustics and vibration by creating an international organisation that is responsive to the needs of scientists and engineers concerned with the acoustics and vibration problems all around the world.

Manuscripts of articles and technical notes should be submitted for review electronically in PDF format to the Editor-in-Chief. The full paper handling process is carried out electronically using the IJAV website at www.iiav.org/ijav — more details can be found on the journal website. Manuscripts are refereed by at least two referees and are reviewed by Associate Editors and the Editor-in-Chief before acceptance. On acceptance, revised articles, brief biographies, and photographs of all authors should be submitted to the Managing Editor using the IJAV website. Manuscripts of the articles must be prepared in strict accordance with the author instructions. No honorarium is paid for articles.

All information concerning subscription, new books, journals, conferences, etc. should be submitted to the Editor-in-Chief.

Starting in March 2016, IJAV became an open access journal and published electronically.

The journal and all articles and illustrations published herein are protected by copyright. No part of this journal may be translated, reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, microfilming, recording or otherwise, without written permission of the publisher.

Copyright © 2019, International Institute of Acoustics and Vibration ISSN 1027-5851



International Journal of Acoustics and Vibration

ADVERTISEMENT INSERTION RATES AND INSTRUCTIONS

Instructions:

Send all insertion orders to:

Malcolm J. Crocker Editor-in-Chief, IJAV 201 Ross Hall

Auburn, Al 36849

Tel: 334-844-3310 Fax: 334-844-3306

Advertising Rates in US dollars:

Page Size	1 Time	2 Times	3 Times	4 Times
Full	1500	1400	1300	1200
2/3	1300	1200	1100	1000
1/2	1000	925	850	800
1/3	800	750	700	600
1/4	600	570	540	500
1/8	500	480	460	400

Page Size (with margins)	Width (mm)	Depti (mm	
1	183	255	
2/3	183	129	
1/2	93	255	
1/3	183	87	
1/4	183	66	
1/8	93	66	

Please Note:

 Other advertisement dimensions are available but should be discussed with the Managing Editor at (Marek.Pawelczyk@polsl.pl).

Please Note:

- The IJAV is a quarterly publication.
- Rates are volume based on the total amount of space used in a 12-month period beginning with the first insertion order
- All rates are based on a standard and advertisement page (210x297 mm) of camera-ready work. Copies requiring any typesetting will be charged an additional fee by the typesetter.

Quarterly Due Dates:

Issue	March	June	Sept.	Dec.
Insertion Orders	Feb. 1	May 1	Aug. 1	Nov. 1
Artwork	Feb. 10	May 15	Aug. 10	Nov. 10

Position:

- Full page inside cover: \$100/insertion + space cost.
- Outside back cover: \$150/insertion + space cost.
- Special positions will be provided when available.

Colours:

- PMS colours: \$250/colour + space cost.
- Four-colour process: \$559 + space cost.

Requirements for Submitting Artwork and Advertisement Materials:

- Send all materials electronically by the due date shown above to the IJAV Managing Editor, Professor Marek Pawelczyk, in the Editorial Office at (Marek.Pawelczyk@polsl.pl).
- If special fonts are required in an advertisement, the font should be specified.
- Professional photographs may also be submitted.
- The format of the IJAV is 210x297 mm. The edges of photographs will be reduced by 1.5 mm on each side. If a photograph is provided, its dimensions should match the size of the desired result in the journal.