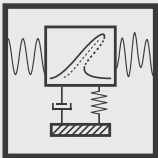


Mechanical Engineering

Materials Science and Technology

Journal of Vibroengineering



Editor in Chief

Minvydas Ragulskis	Kaunas University of Technology, (Lithuania)	minvydas.ragulskis@ktu.lt
Editorial Board		
Hojjat Adeli	The Ohio State University, (United States)	adeli.1@osu.edu
Kouamana Bousson	University of Beira Interior, (Portugal)	bousson@ubi.pt
Jinde Cao	Southeast University, (China)	jdcao@seu.edu.cn
Maosen Cao	Hohai University, (China)	cmszhy@hhu.edu.cn
Marco Civera	Politecnico di Torino, (Italy)	marco.civera@polito.it
Joze Duhovnik	University of Ljubljana, (Slovenia)	joze.duhovnik@lecad.uni-lj.si
Sezgin Ersoy	Marmara University, (Turkey)	ersoy@marmara.edu.tr
Ke Feng	University of British Columbia, (Canada)	ke.feng@outlook.com.au
Rafael Figueroa	Instituto Tecnológico de Sonora, (Mexico)	rafael.figueroa@itson.edu.mx
Piotr Folęga	Silesian University of Technology, (Poland)	piotr.folego@polsl.pl
Wen-Hsiang Hsieh	National Formosa University, (Taiwan)	allen@nfu.edu.tw
David Hui	University of New Orleans, (United States)	dhui@uno.edu
Vassilios Kappatos	Center for Research and Technology Hellas, (Greece)	vkappatos@certh.gr
Hamid Reza Karimi	Politecnico di Milano, (Italy)	hamidreza.karimi@polimi.it
Vitaliy Korendiy	Lviv Polytechnic National University, (Ukraine)	vitaliy.nulp@gmail.com
Chen Lu	Beihang University, (China)	luchen@buaa.edu.cn
Abdollah Malekjafarian	University College Dublin, (Ireland)	abdollah.malekjafarian@ucd.ie
Phuoc Trong Nguyen	Ho Chi City Open University, (Vietnam)	phuoc.nguyen@ou.edu.vn
Nicola Nisticò	Sapienza University of Rome, (Italy)	nicola.nistico@uniroma1.it
Ehsan Noroozinejad	The University of British Columbia (UBC), (Canada)	ehsan.noroozinejad@gmail.com
Vytautas Ostasevičius	Kaunas University of Technology, (Lithuania)	vytautas.ostasevicius@ktu.lt
Lei Qiu	Nanjing University of Aeronautics and Astronautics, (China)	lei.qiu@nuaa.edu.cn
Subhash Rakheja	Concordia University, (Canada)	subhash.rakheja@concordia.ca
Vinayak Ranjan	University of Pittsburgh at Bradford PA, (United States)	vinayak.ranjan@bennett.edu.in
Pouyan Roodgar Saffari	Chulalongkorn University, (Thailand)	rpouyan@engr.tu.ac.th
G. Eduardo Sandoval-Romero	The National Autonomous University of Mexico, (Mexico)	eduardo.sandoval@ccadet.unam.mx
Miguel A. F. Sanjuan	University Rey Juan Carlos, (Spain)	miguel.sanjuan@urjc.es
Gangbing Song	University of Houston, (United States)	gsong@uh.edu
Jānis Vība	Riga Technical University, (Latvia)	janis.viba@rtu.lv
Xiao-Jun Yang	China University of Mining and Technology, (China)	xjyang@cumt.edu.cn

JVE Journal of Vibroengineering

Aims and Scope

Journal publishes research papers presenting the latest results in the general area of vibration engineering. Mechanical vibrations and applications, fault diagnosis based on vibration signal analysis, seismic engineering, acoustics, and noise control are typical examples of the core areas of the Journal. The Journal is devoted to the publication of original research papers of a high technical standard representing theoretical and experimental aspects of engineering problems related to vibrations.

All published papers are peer reviewed and crosschecked by plagiarism detection tools.

More information is available online <https://www.extrica.com/journal/jve>

The journal material is referred:

Clarivate Analytics:

Emerging Sources Citation Index (ESCI)
Journal Citation Reports / Science Edition

Scopus: ELSEVIER Bibliographic Database

EI Compendex: ELSEVIER Bibliographic Database

EBSCO: Academic Search Complete

Computers & Applied Sciences Complete
Central & Eastern European Academic Source
Current Abstracts
Shock & Vibration Digest
TOC Premier

Gale Cengage Learning:

Academic OneFile Custom Periodical
Science in Context

ResearchGate: <https://www.researchgate.net>

Scilit: <https://www.scilit.net>

Dimensions: <https://www.dimensions.ai>

Semantic Scholar: <https://www.semanticscholar.org>

Google Scholar: <https://scholar.google.com>

JGate: <https://jgateplus.com>

CORE: <https://core.ac.uk>

BASE (Bielefeld Academic Search Engine): <https://www.base-search.net>

Ulrich's Periodicals Directory: <https://ulrichsweb.serialssolutions.com>

CNKI Scholar: <http://eng.scholar.cnki.net>

cnplINKer (CNPIEC): <http://cnplinker.cnpeak.com>

WanFang Data: <https://www.wanfangdata.com.cn>

TDNet: <https://www.tdnet.io>

JournalTOCs: <https://www.journaltoCs.ac.uk>

WorldCat Discovery Services: <https://www.oclc.org/en/worldcat-discovery.html>

Crossref: <https://search.crossref.org>

Content is archived in:

Martynas Mazvydas National Library of Lithuania: <https://www.lnb.lt>

Portico: <https://www.portico.org>

Internet: <https://www.extrica.com>

E-mail: publish@extrica.com

Publisher: Extrica

Contents

MECHANICAL VIBRATIONS AND APPLICATIONS

DYNAMIC CHARACTERISTICS OF AIRCRAFT GEAR TRANSMISSION SYSTEMS UNDER OVERLOAD LEVEL-FLIGHT CONDITIONS	1021
---	-------------

RENHONGYI ZHOU, AIQIANG ZHANG, PAN SHEN, YICHEN LIU

DYNAMIC MODELING AND SCREENING PERFORMANCE OF A DOUBLE-LAYER FORCED SYNCHRONOUS CIRCULAR VIBRATING SCREEN	1047
--	-------------

HONGXI LI, ENHUI ZHOU, HAISHEN JIANG, LING SHEN, ZIXIN YIN

FAULT DIAGNOSIS BASED ON VIBRATION SIGNAL ANALYSIS

DYNAMIC MODELING AND SIGNAL MAPPING OF ROTOR DISPLACEMENT AND VELOCITY UNDER RUB-IMPACT FAULTS	1062
---	-------------

HAISHAN XU, HONGCHAO WANG

SENSOR PLACEMENT METHOD FOR CRANE STRUCTURAL HEALTH MONITORING BASED ON MULTI-LEVEL DAMAGE IDENTIFICATION	1087
--	-------------

GUANSI LIU, HUI JIN, KEQIN DING

MOTOR BEARING FAULT EARLY WARNING MODEL FOR TCN INTEGRATING MULTI-ATTENTION MECHANISMS	1105
---	-------------

TAOHUANG LIU, ZHIHUA HU, GULIZHATI HAILATI, LILI TAO, YIHENG HU, FENG DING

OPERATING STATUS PREDICTION METHOD FOR GAS STORAGE COMPRESSORS BASED ON BiLSTM	1126
---	-------------

HUA CHEN, LIANG WANG, SHUANG LI, XIAOHAN WEI

A FEATURE LIGHTWEIGHT IMAGE CODING METHOD FOR FAULT DIAGNOSIS OF HYDRAULIC MOTOR BEARINGS: PVIE	1142
--	-------------

XIAOMIN TENG, HUIYING XING, WANSHENG WANG, JING LI, YUNLIN MA

VIBRATION CONTROL, GENERATION AND HARVESTING

NONSINGULAR SLIDING MODE CONTROL METHOD FOR VIBRATION OF DRIVING MOTOR OF SHIP RIM PROPULSION DEVICE	1160
---	-------------

LIJUN HAN, QIAN JIANG

PREDICTION AND EXPERIMENTAL VALIDATION OF RADIAL DISPLACEMENT IN COMBINED BEARINGS FOR BOREHOLE TRAJECTORY CONTROL TOOLS	1176
PENG GAO GUO, LEI SHI, YAN FEI YU, ZHAN ZHOU, DIAN REN MAO	
SEISMIC ENGINEERING AND APPLICATIONS	
NEAR-FIELD SEISMIC WAVE ATTENUATION AND LOCAL MAGNITUDE CALIBRATION BASED ON CONTROLLED BLASTING EXPERIMENTS	1190
YU WANG, JUNHAO QU, RUIFENG LIU, ZIBO WANG, QINYING WANG, KUNPENG SHI, QIJIE ZHOU, SHIWEN XIE	
A REVIEW OF BRIDGE RESILIENCE: ASSESSMENT FRAMEWORKS, INTELLIGENT ALGORITHMS, AND FUTURE DIRECTIONS	1205
JIUQING ZHOU, MINGYOU CHEN, LEIFA LI, GUANGHUI ZHANG, DAMING LIN	
STRUCTURAL CAPACITY AND IMPACT BEHAVIOR OF CIRCULAR BRIDGE PIERS STRENGTHENED BY CONCRETE JACKETING	1239
XIAOHUI CONG, YUNLONG ZHANG, HAIXIA ZHAO	
VIBRATION IN TRANSPORTATION ENGINEERING	
HYBRID SMITH PREDICTOR-NEUROENDOCRINE CONTROL FOR SEMI-ACTIVE SUSPENSION OF HIGH-CLEARANCE AGRICULTURAL SPRAYERS	1256
CONGCONG CHEN, WEIWEI SONG, GANG LI, YULING YE, JUNFENG AN	
FLOW INDUCED STRUCTURAL VIBRATIONS	
DYNAMIC RESPONSE AND COLLAPSE MECHANISMS OF TRANSMISSION LINES UNDER DOWNBURST-INDUCED WIND–RAIN LOADS	1275
GUODONG SHAO, CHONGYANG ZHANG, YUANCHAO JIA, MINGXUAN ZHU, SYED HASSAN FAROOQ, ORYNGOZHIN YERNAZ, ZHENGYU REN, SIYAO ZHANG, JUNCAI LIU	
ACOUSTICS, NOISE CONTROL AND ENGINEERING APPLICATIONS	
NON-STATIONARY NOISE SUPPRESSION IN LOW VOLTAGE POWER LINE CARRIER CHANNEL BASED ON CNN-LSTM HYBRID MODEL IMPEDANCE MATCHING ALGORITHM	1302
CHUNSHAN ZHU, QINGLONG WANG, YUNGA A, XUEQI SHI, WENJIAO LU	
SYSTEM DYNAMICS IN MANUFACTURING SYSTEM MODELING	
STRUCTURAL AND PROCESS PARAMETER OPTIMIZATION FOR ROTARY RIVETING OF WHEEL HUB BEARING FACE TEETH	1318
WEI XIONG, YONG-KUN GUO, ZHONG-DI DENG, HAI-BO ZHANG, SHUO LV	
ERRATUM: ROLLING BEARING FAULT DIAGNOSIS UNDER VARYING OPERATING CONDITIONS USING A CONVOLUTIONAL-TRANSFORMER MULTI-ALIGNMENT APPROACH	1332

SHORT DESCRIPTION ABOUT THIS CATEGORY

The major objective of vibration engineering is to protect people, instruments, machines, and structures from the effect of harmful vibration. Mechanical vibrations and applications, fault diagnosis based on vibration signal analysis, seismic engineering, acoustics, and noise control are typical examples of the core areas of the Journal. The aim of the Journal is to present theoretical and experimental aspects of engineering problems related to vibrations.

