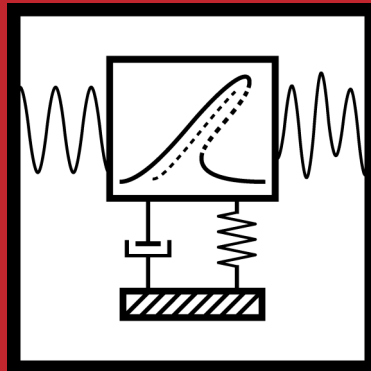


March 2021, Volume 7, Issue 1
Pages (1-21)
ISSN Print 2351-5279
ISSN Online 2424-4627

MIME

Mathematical
Models in
Engineering



Editor in Chief

M. Ragulskis Kaunas University of Technology, (Lithuania) minvydas.ragulskis@ktu.lt

Editorial Board

Hojjat Adeli The Ohio State University, (USA) adeli.1@osu.edu

Tahir Cetin Akinci Istanbul Technical University, (Turkey) cetinakinci@hotmail.com

Mahmoud Bayat Roudehen Branch, Islamic Azad University, (Iran) mbayat14@yahoo.com

Rafał Burdzik Silesian University of Technology, (Poland) rafal.burdzik@polsl.pl

Jinde Cao Southeast University, (China) jdcao@seu.edu.cn

Maosen Cao Hohai University, (China) cmszhy@hhu.edu.cn

Sezgin Ersoy Marmara University, (Turkey) sersoy@marmara.edu.tr

Hee-Chang Eun Kangwon National University, (Korea) heechang@kangwon.ac.kr

W. H. Hsieh National Formosa University, (Taiwan) allen@nfu.edu.tw

Vassilis Kappatos Center for Research and Technology Hellas, (Greece) vkappatos@certh.gr

Sunil Kumar National Institute of Technology, (India) skumar.math@nitjsr.ac.in

Giedrius Laukaitis Kaunas University of Technology, (Lithuania) giedrius.laukaitis@ktu.lt

Petr Lepšik Technical University of Liberec, (Czech Republic) petr.lepsik@tul.cz

Chen Lu Beihang University, (China) luchen@buaa.edu.cn

Guang-qing Lu School of Intelligent Systems Science and Engineering, Jinan University, (China) tgqluyp@jnu.edu.cn

Yuxin Mao Zhejiang Gongshang University, (China) maoyuxin@zjgsu.edu.cn

Doina Pisla Technical University of Cluj-Napoca, (Romania) doina.pisla@mep.utcluj.ro

Kazimieras Ragulskis Lithuanian Academy of Sciences, (Lithuania) k.ragulskis@jve.lt

Vinayak Ranjan Bennett University, (India) vinayak.ranjan@bennett.edu.in

Julia Irene Real Politechnical University of Valencia, (Spain) jureaher@tra.upv.es

Eligijus Sakalauskas Kaunas University of Technology, (Lithuania) eligijus.sakalauskas@ktu.lt

G. Eduardo Sandoval-Romero The National Autonomous University of Mexico, (Mexico) eduardo.sandoval@ccadet.unam.mx

Reza Serajian University of California, (USA) rsera004@ucr.edu

Shigeki Toyama Tokyo A&T University, (Japan) toyama@cc.tuat.ac.jp

Agnieszka Wylomanska Wrocław University of Technology, (Poland) agnieszka.wylomanska@pwr.edu.pl

Xiao-Jun Yang China University of Mining and Technology, (China) dyangxiaojun@163.com

MME Mathematical Models in Engineering

Aims and Scope

MME publishes mathematical results which have relevance to engineering science and technology. Formal descriptions of mathematical models related to engineering problems, as well as results related to engineering applications are equally encouraged.

Applications of mathematical models in financial engineering, mechanical and aerospace engineering, bioengineering, chemical engineering, computer engineering, electrical engineering, industrial engineering and manufacturing systems, nonlinear science and technology are especially encouraged.

Mathematical models of interest include, but are not limited to, ordinary and partial differential equations, nonlinear analysis, stochastic processes, calculus of variations, operations research.

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

More information is available online <https://www.jvejournals.com>

The journal material is referred:

EBSCO: Discovery Services (Complementary Index)

GALE Cengage Learning: Academic OneFile Custom Periodical;
Computer Database;
Science in Context.

DIRECTORY OF OPEN ACCESS JOURNALS (DOAJ): <https://doaj.org>

SEMANTIC SCHOLAR: <https://www.semanticscholar.org>

GOOGLE SCHOLAR: <https://scholar.google.com>

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

JGate: <https://jgateplus.com>

1findr: <https://1findr.lscience.com>

ULRICH'S PERIODICALS DIRECTORY: <https://ulrichsweb.serialssolutions.com>

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

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

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

MIAR, Universitat de Barcelona: <http://miar.ub.edu>

JournalTOCs: <http://www.journaltoecs.ac.uk>

CROSSREF: <https://www.crossref.org>

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

E-mail: publish@jvejournals.com

Publisher: JVE International Ltd., Geliu ratas 15A, LT-50282, Kaunas, Lithuania

MIME

Mathematical
Models in
Engineering

MARCH 2021. VOLUME 7, ISSUE 1, PAGES (1-21), ISSN PRINT 2351-5279, ISSN ONLINE 2424-4627

Contents

HYBRID EXTRACTION OF MULTI-WORD TERMS: AN APPLICATION ON VIBRATION-BASED CONDITION MONITORING TECHNIQUE	1
KONSTANTINOS CHATZITHEODOROU, VASSILIOS KAPPATOS	
FORCED VIBRATIONS OF VIBRO IMPACT SYSTEM WITH ZERO TIGHTENING WITH HARMONIC RESONANT EXCITATION	10
K. RAGULSKIS, L. RAGULSKIS	

