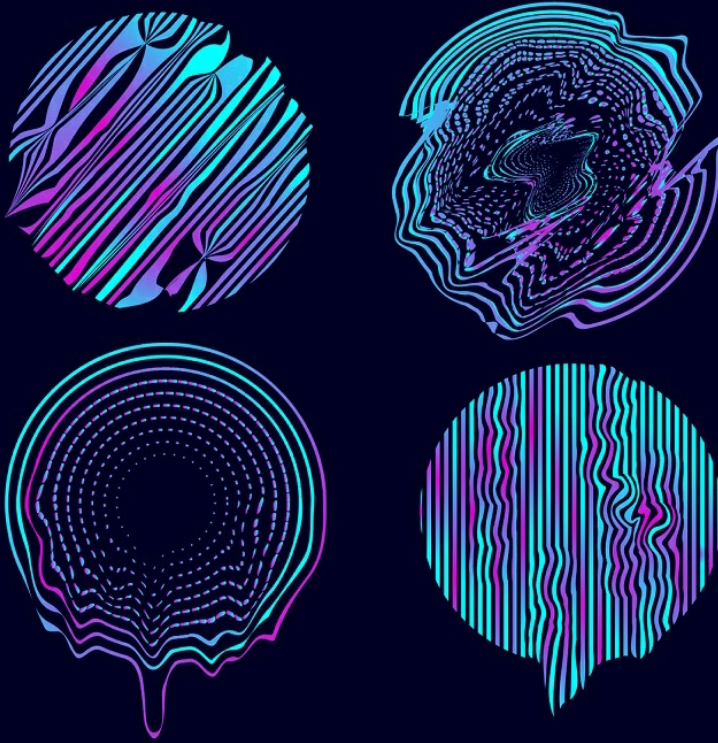


Applied Mathematics

Interdisciplinary Applications of Mathematics

Mathematical Models in Engineering



Editor in Chief

Minvydas 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	The University of Texas at Arlington, (USA)	ranjan@rowan.edu
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	Technische Universität Braunschweig, (Germany)	ersoy@marmara.edu.tr
Hee-Chang Eun	Kangwon National University, (Korea)	heechang@kangwon.ac.kr
Wen-Hsiang Hsieh	National Formosa University, (Taiwan)	allen@nfu.edu.tw
Vassilios 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 Lepšík	Technical University of Liberec, (Czech Republic)	petr.lepsik@tul.cz
Chen Lu	Beihang University, (China)	luchen@buaa.edu.cn
Doina Pisla	Technical University of Cluj-Napoca, (Romania)	doina.pisla@mep.utcluj.ro
Vinayak Ranjan	Rowan University, (USA)	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
Agnieszka Wylomanska	Wroclaw University of Technology, (Poland)	agnieszka.wylomanska@pwr.edu.pl
Xiao-Jun Yang	China University of Mining and Technology, (China)	xjyang@cumt.edu.cn

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.extrica.com/journal/mme>

The journal material is referred:

Scopus: ELSEVIER Bibliographic Database

EBSCO: Discovery Services (Complementary Index)

Gale Cengage Learning:

Academic OneFile Custom Periodical

Computer Database

Science in Context

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

Asian Science Citation Index (ASCI): <https://ascidatabase.com>

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://cnlinker.cnpeak.com>

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

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

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

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

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

MyScienceWork: <https://www.mysciencework.com>

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

Content is archived in **Martynas Mazvydas National Library of Lithuania**

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

E-mail: publish@extrica.com

Publisher: Extrica

Contents

A BULK QUEUE'S ANALYSIS WITH TWO-STAGE HETEROGENEOUS SERVICES, MULTIPLE VACATIONS, CLOSEDOWN WITH SERVER BREAKDOWN, AND TWO TYPES OF RENOVATION	49
PALANIAMMAL S, KUMAR K	
CONNECTED METRIC DIMENSION OF THE CLASS OF LADDER GRAPHS	65
M. IQBAL BATIHA, MOHAMED AMIN, BASMA MOHAMED, H. IQBAL JEBRIL	
ADAPTIVE ROBUST CONTROL OF ELECTROMAGNETIC ACTUATORS WITH FRICTION NONLINEARITY AND UNCERTAINTY COMPENSATION	75
SHUSEN YUAN, WENJUN YI, GUOLAI YANG	
A CNN-BILSTM ALGORITHM FOR WEIBO EMOTION CLASSIFICATION WITH ATTENTION MECHANISM	87
XINYUE FENG, NIWAT ANGKAWISITPAN, XIAOQING YANG	
TRANSFORMING DATA WITH THE ARCSINE DISTRIBUTION FOR RANDOM WALKS	98
YASSINE LAARICHI, MARIEM ELKAF, AMAL ALOUI, OUALID RHOLAM	
DESIGN AND ANALYSIS OF TRACKING DIFFERENTIATOR BASED ON SO(3)	109
RUIXIN DENG, GUOLAI YANG	

SHORT DESCRIPTION ABOUT THIS CATEGORY

Mathematical modelling helps to create a mathematical representation of a real-world scenario to make a prediction or provide insight into the complex behavior of real-world systems. The journal publishes mathematical results which have relevance to engineering science and technology. Mathematical models of interest include, but are not limited to, ordinary and partial differential equations, nonlinear analysis, stochastic processes, calculus of variations, and operations research.

