



Matrix Science Mathematic (MSMK)

HEAD OFFICE ADDRESS:

Zibeline International Publishing Sdn Bhd

C2-2-3, Block 2, CBD Perdana 3,
Persiaran Cyberpoint Timur,
Cyber 12, 63000 Cyberjaya,
Selangor.

Tel: +603-86879842

EDITORIAL STAFF:

Publishing Manager

Tasbia Ab Rajul

Publishing Editor

Nurul Afiqah Ab Manan

Publishing Editor

Rozalaidah Abdul Karim

Technical Editor

Nuraliah Natasha Amirulhisam

Technical Editor

Muhammad Aqil Zikry Mohd Nizam

Frequency:

Bi-annual (2 issue per year)

ISSN: 2521-0831 (Print)

ISSN: 2521-084X (Online)

Price:

Single issue: 50 MYR

Price for abroad

Single issue: 25 USD

Web:

www.matrixsmathematic.com

E-mail:

info@zibelinepub.com

Matrix Science Mathematic (MSMK)

Contents

VOLUME 7, ISSUE 1, 2023		
No	Editorial	Pages
1	MODIFIED COMPUTATIONAL METHOD BASED ON INTEGRAL TRANSFORM FOR SOLVING FRACTIONAL ZAKHAROV-KUZNETSOV EQUATIONS	01-06
2	APPLICATION OF ROBUST REGRESSION FOR PORTFOLIO OPTIMIZATION	07-15
3	BESSEL MATRIX POLYNOMIALS AND FIFTH-ORDER DIFFERENTIAL EQUATIONS	16-21
4	AN EFFECTIVE METHOD FOR PREDICTION OF THE FIELD DISTRIBUTION OF LP11 MODE OF DISPERSION-CONTROLLED FIBERS HAVING THIRD ORDER NONLINEARITY	22-26
5	A NEW SOFT SET OPERATION: COMPLEMENTARY SOFT BINARY PIECEWISE GAMMA(γ) OPERATION	27-45
6	A COMPARATIVE ANALYSIS OF COST 231 AND HATA MODELS WITH MEASURED PATH LOSS FOR SOKOTO METROPOLIS (A CASE STUDY OF MTN)	46-49
7	A COMPREHENSIVE APPROACH TO EVALUATING SOLUTIONS OF BESSEL'S FUNCTION OF THE FIRST KIND OF ORDER N	50-57

Matrix Science Mathematic (MSMK)

Editorial

Our aim is to encourage scientists to publish their experimental and theoretical results in as much detail as possible. There is no restriction on the length of the papers. The full account of the research must be provided so that the results can be reproduced. Electronic files or software which provide the full details of the calculations, proofs and experimental procedures can be deposited as supplementary material (if unable to be published in a normal way).

Scientific Board

Editorial Team

Editor in Chief

Assoc. Professor. Dr Norma Binti Alias
Center for Sustainable Nanomaterials,
Ibnu Sina Institute for Scientific and Industrial
Research,
Universiti Teknologi Malaysia
Skudai, Johor , Malaysia

Editorial Board

Kifilideen L. Osanyinpeju.
Agricultural and Bio-Resources
Engineering,
Federal University of Abeokuta, Ogun State, Nigeria.

Yongjin LI
Department of Mathematics, Sun Yat-sen University,
Guangzhou, 510275, China

Arif Mehmood Khattak
Department of Mathematics and Statistics Riphah
International University, Sector I-14 Islamabad,
Pakistan

Mai Zurwatul Ahlam
Department of Mathematics, Faculty of Science,
Universiti Putra Malaysia (UPM),
Serdang 43400, Selangor, Malaysia

Attaullah
Department of Mathematics & Statistics, Bacha Khan
University Charsadda 24461, KPK, Pakistan

Mehtab Khan
Department of Mathematics, Bacha Khan University,
Charsadda, Pakistan

Ihtisham Ul Haq
Department of Mathematics, University of Malakand,
Dir(L), Khyber Pakhtunkhwa, Pakistan

Hassan Khan
Department of Mathematics, Abdul Wali khan
University, Mardan 23200, Pakistan

Editorial Board

Neel Kanth
Department of Mathematics JayPee University of
Information Technology Waknaghat, Solan

Hafiz Ullah
COMSATS University Islamabad, Park road, Chak
Shahzad, Islamabad 45550, Pakistan

Oluwafemi, Temidayo J
Department of General Studies, Newgate College of
Health Technology, Minna, Niger State, Nigeria.

Bawar Mohammed Faraj
Department Computer Science, College of Science,
University of Halabja

Shorouk M. Al-Issa
Department of Mathematics, Faculty of Arts and
Sciences, The International University of Beirut,
Beirut 1107, Lebanon

Md. Yasin Ali
Department of Electrical and Electronic
Engineering
University of Information Technology & Sciences
Dhaka, Bangladesh

Nazrul Islam
Department of Mathematics Jashore University of
Science and Technology

Nisar Ahmad
Department of Mathematics, Kohat University of
Science and Technology (KUST), Kohat KPK,
Pakistan

Muhammad Sinan
Department of Mathematics and Statistics,
University of Swat

Sartaj Ali
Department of Mathematics, University of
Peshawar, Peshawar 25000, Pakistan

Matrix Science Mathematic (MSMK)

Muhammad Usman
Department, of Basic Science & Islamiyat UET,
Peshawar, Pakistan

Mary Amoako
Registry, Kumasi Technical University, Kumasi,
Ghana