

NEPAL JOURNAL OF MATHEMATICAL SCIENCES (NJMS)

ISSN: 2738-9928 (Online), 2738-9812 (Print)

Volume-3, Number -2 (August, 2022)

Advisors

Prof. Binil Aryal, Dean, Institute of Science and Technology, Tribhuvan University

Prof. Ram Prasad Khatiwada, Former Dean, Institute of Science and Technology, TU

Prof. Prakash Muni Bajracharya, Former Director, School of Mathematical Sciences, TU

Editor-in-Chief

Prof. Narayan Prasad Pahari

Director, School of Mathematical Sciences, Tribhuvan University,
Kirtipur, Kathmandu, Nepal

Email: nppahari@gmail.com, njmseditor@gmail.com

Board of Editors

Narayan Adhikari, Central Department of Physics, Tribhuvan University, Nepal

Badri Adhikari, Department of Computer Science, University of Missouri-St. Louis, USA

Bal Krishna Bal, Department of Computer Engineering, Kathmandu University, Nepal

Rashmi Bhardwaj, School of Basic and Applied Sciences, Indraprastha University, Delhi, India

Debendra Banjade, Department of Mathematics, Coastal Carolina University, USA

Chet Raj Bhatta, Central Department of Mathematics, Tribhuvan University, Nepal

Ghanshyam Bhatt, Department of Mathematics, Tennessee State University, USA

Milan Bimali, Department of Biostatistics, University of Arkansas for Medical Sciences, USA

Mahananda Chalise, School of Management (SOM), Tribhuvan University

Ram Prasad Ghimire, School of Natural Sciences, Kathmandu University

Dil Bahadur Gurung, School of Natural Sciences, Kathmandu University

Dipak Kumar Jana, Applied Science, Haldia Institute of Technology, W.B., India

Parameshwari Kattel, Dept. of Mathematics, Trichandra Multiple Campus, Tribhuvan University, Nepal

Durga Jang KC, Central Department of Mathematics, Tribhuvan University, Nepal

Vikash Kumar KC, Department of Statistics, Prithwi Narayan Campus, Tribhuvan University, Nepal

Chakra Bahadur Khadka, School of Mathematical Sciences, Tribhuvan University, Nepal

Shree Ram Khadka, Central Department of Mathematics, Tribhuvan University, Nepal

Shankar Prasad Khanal, Central Department of Statistics, Tribhuvan University, Nepal

Ganesh B. Malla, Department of Statistics, University of Cincinnati - Clermont, USA

Jyotsna Kumar Mandal, Department of Computer Sciences, Kalyani University, West Bengal, India

Danda Bir Rawat, Department of Computer Science, Howard University, Washington, DC, USA

Rama Shanker, Department of Statistics, Assam University, Silchar, India

Gyan Prakash Singh, Department of Statistics, Banaras Hindu University, India

Vikash Raj Satyal, Department of Statistics, Amrit Campus, Tribhuvan University, Nepal

Subarna Shakya, Institute of Engineering, Tribhuvan University, Pulchowk

Sahadeb Uprettee, Department of Actuarial Science, Central Washington University, USA

Managing Coordinator

Mr. Keshab Raj Phulara, School of Mathematical Sciences, Tribhuvan University, Nepal

Acknowledgement

The Editorial Board would like to express their sincere gratitude and special thanks to the following reviewers for their substantial contribution of time and expertise to the journal's rigorous editorial process for this volume, regardless of whether the papers are finally accepted /published or not.

- Adewara J.A., Dept of Actuarial Statistics, Distance Learning Institute University of Lagos, Nigeria
- Arun K. Chaudhary, Department of Management Science (Statistics), Tribhuvan University, Nepal
- Bishnu Hari Subedi, Central Department of Mathematics, Tribhuvan University, Nepal
- Chet Raj Bhatta, Central Department of Mathematics, Tribhuvan University, Nepal
- Dil Bahadur Gurung, School of Natural Sciences(Mathematics), Kathmandu University, Nepal.
- Dinesh Panthi, Department of Mathematics, Nepal Sanskrit University, Nepal
- Dipak Kumar Jana, Applied Science, Haldia Institute of Technology, W.B., India
- Muhammad Kamran Jamil, Dept of Mathematics, Riphah International University, Lahore, Pakistan
- Narayan Prasad Pahari, School of Mathematical Sciences, Tribhuvan University, Nepal
- Omorodion Martins, Qualified Actuary UK, Elizade University, Nigeria
- Puskar Raj Pokharel, Dept of Mathematics, Pulchok Engineering Campus, Tribhuvan University, Nepal
- Ram Lakhan Sah, Department of Mathematics, RRM Campus, Tribhuvan University, Nepal
- Ramesh Kumar Joshi, Department of Statistics, Trichandra Campus, Tribhuvan University, Nepal
- Santosh Ghimire, Department of Mathematics, Pulchok Engineering Campus, Tribhuvan University, Nepal
- Shankar Kumar Shrestha, Public Youth Campus Tribhuvan University, Kathmandu, Nepal
- Surinder Kumar, Department of Statistics, Babasaheb Bhim Raw Ambedkar University, Lucknow, India

NEPAL JOURNAL OF MATHEMATICAL SCIENCES (NJMS)

Volume-3, Number-2 (August, 2022)

©School of Mathematical Sciences, Tribhuvan University

The views and interpretations in this journal are those of the author(s) and they are not attributable to the School of Mathematical Sciences, Tribhuvan University.

The Nepal Journal of Mathematical Sciences (NJMS) is now available on NepJOL at <https://www.nepjol.info/index.php/njmathsci/index>

MAILING ADDRESS:

Nepal Journal of Mathematical Sciences
School of Mathematical Sciences,
Tribhuvan University, Kirtipur,
Kathmandu, Nepal

Phone: (00977) 01-6200207, Website: www.sms.tu.edu.np

Email: nppahari@gmail.com, njmseditor@gmail.com

Editorial

Welcome to the Second issue of Volume 3, 2022 of Nepal Journal of Mathematical Sciences (NJMS). This issue contains seven original research articles and review papers in different fields of mathematics and mathematical sciences. We are grateful to all the authors for publishing their research works on this issue. We are expressing our thankfulness to all the reviewers and editors for their support, and backing for the publication of this work. We would like to request research scholars, professors, and scientists to submit their original research articles for future issues.

August 30, 2022

Editor-in-Chief

Prof. Dr. Narayan Prasad Pahari

Nepal Journal of Mathematical Sciences

(NJMS)

Email: *nppahari@gmail.com, njmseditor@gmail.com*

CONTENTS

1.	Half Cauchy Inverse NHE Distribution: Properties and Applications DOI: 10.3126/njmathsci.v3i2.49198 □ <i>Arun Kumar Chaudhary, Lal Babu Sah and Vijay Kumar</i>	1-12
2.	The Actuarial Conditions for the Valuation of Pension Liability to Become Zero Under Minimum Funding Standard Architecture DOI: 10.3126/njmathsci.v3i2.49199 □ <i>Gbenga Ogungbenle and David Ilemona Omede</i>	13-30
3.	On Generalized Form of Difference Sequence Space of Fuzzy Real Numbers Defined by Orlicz Function DOI: 10.3126/njmathsci.v3i2.49200 □ <i>Gyan Prasad Paudel, Suresh Kumar Sahani and Narayan Prasad Pahari</i>	31-38
4.	A Bayesian Analysis and Estimation of Weibull Inverse Rayleigh Distribution Using HMC Method DOI: 10.3126/njmathsci.v3i2.49202 □ <i>Laxmi Prasad Sapkota</i>	39-58
5.	k-Product Cordial Labeling of Napier Bridge Graphs DOI: 10.3126/njmathsci.v3i2.49201 □ <i>K. Jeya Daisy , R. Santrin Sabibha , P. Jeyanthi and Maged Z. Youssef</i>	59-70
6.	Approximation Solutions for Solving Some Special Functions of Fractional Calculus via Caputo - Fabrizio Sense DOI: 10.3126/njmathsci.v3i2.49203 □ <i>Shankar Pariyar and Jeevan Kafle</i>	71-80
7.	A Study of Tsirelson Space DOI: 10.3126/njmathsci.v3i2.49204 □ <i>Bhuwan Prasad Ojha and Dhruba Raj Sigdel</i>	81-86