

Muhammad Danish Zia

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About

Dr. Muhammad Danish Zia is working as Assistant Professor in the Military College of Engineering. Dr. Muhammad Danish Zia has a PhD in Mathematics. Dr. Muhammad Danish Zia has published 14 research articles & conference papers having a citation count of 71, carried out 0 projects and filed 0 intellectual property.

Qualifications

PhD in Mathematics Lahore University of Management Sciences , Pakistan	2017 - 2021
MPhil in Mathematics (Convex Analysis) NUST, Islamabad , Pakistan	2013 - 2015
MSc in Mathematics International Islamic University , Pakistan	2011 - 2013
BSc in Double Maths, Stats University of the Punjab , Pakistan	2009 - 2011

Experience

Assistant Professor Military College of Engineering	2021- Present
Assistant Professor Military College of Engineering	2021 - 2021
Lecturer Military College of Engineering	2016 - 2021
Senior Lecturer Civil College of Commerce and Management , S-174, Dhamial Road, Opp. Biscuit Factory, Rawalpindi	2013 - 2015

Awards

Gold Medal For securing 1st position in Master of Science in Mathematics	2016
President's Gold Medal For securing 1st position in Master of Philosophy in Mathematics	2015

Research Articles

Analytical Periodic Solutions for Non-Homogenous Integrable Dispersionless Equations Using a Modified Harmonic Balance Method <i>Muhammad Irfan khan Yiu-Yin Lee Muhammad Danish Zia</i> <i>Mathematics</i> , Volume:13, Issue:15, Article Number 2386 Impact Factor: 2.200 Quartile: 1 DOI: https://doi.org/10.3390/math13152386	2025
Complex linear Diophantine fuzzy sets and their applications in multi-attribute decision making <i>Muhammad Danish Zia Faisal Yousafzai Saleem Abdullah Kostaq Hila</i> <i>Engineering Applications of Artificial Intelligence</i> , Volume 132, Article Number 107953 Impact Factor: 8.00 Quartile: 1 Citations: 14 DOI: https://doi.org/10.1016/j.engappai.2024.107953	2024

<p>Perturbation determinant and Levinson's formula for Schrödinger operators with 1-D general point interaction</p> <p><i>M. Fazeel Anwar Muhammad Usman Muhammad Danish Zia</i> <i>Analysis and Mathematical Physics</i>, Volume 14, Issue 3, Article Number 57</p> <p>Impact Factor: 1.4 Quartile: 1 Citations: 1 DOI: 10.1007/s13324-024-00922-1</p>	2024
<p>Mechanism of Improvement and Best-fit Models for the Prediction of Geotechnical Properties of Lime Stabilized Expansive Soil Used in Pavement Subgrade</p> <p><i>Muhammad Ali Naveed Sarfraz Ahmed Arshad Ullah Muhammad Danish Zia</i> <i>Mehran University Research Journal of Engineering and Technology</i>, Volume 43(2), Pages 65-78</p> <p>Impact Factor: 0.600 Quartile: 3 DOI: https://doi.org/10.22581/muet1982.2977</p>	2024
<p>Complex fuzzy intelligent decision modeling for optimizing economic sustainability in transportation sector</p> <p><i>Xiaoying Wang Muhammad Danish Zia Faisal Yousafzai Sarfraz Ahmed Muwen Wang</i> <i>Complex & Intelligent Systems</i>, Pages 1-19</p> <p>Impact Factor: 5.800 Quartile: 2 Citations: 2 DOI: https://doi.org/10.1007/s40747-024-01372-9</p>	2024
<p>Linear Diophantine fuzzy sets over complex fuzzy information with applications in information theory☆</p> <p><i>Faisal Yousafzai Muhammad Danish Zia Murad-ul-Islam Khan Mohammed. M. Khalaf Rashad Ismail</i> <i>Ain Shams Engineering Journal</i>, Volume 15, Issue 1, Article Number: 102327</p> <p>Impact Factor: 6.0 Quartile: 1 Citations: 11 DOI: 10.1016/j.asej.2023.102327</p>	2024
<p>A study of quadratic Diophantine fuzzy sets with structural properties and their application in face mask detection during COVID-19</p> <p><i>Muhammad Danish Zia Esmail Hassan Abdullatif Al-Sabri Faisal Yousafzai Murad-ul-Islam Khan Rashad Ismail Mohammed M. Khalaf</i> <i>AIMS Mathematics</i>, Volume 8, Issue 6, Pages 14449-14474</p> <p>Impact Factor: 2.739 Quartile: 1 Citations: 4 DOI: 10.3934/math.2023738</p>	2023
<p>Applications of AG-Groupoids in Decision-Making via Linear Diophantine Fuzzy Sets</p> <p><i>Faisal Yousafzai Muhammad Danish Zia Mohammed M. Khalaf Esmail Hassan Abdullatif Al-Sabri Rashad Ismail</i> <i>Discrete Dynamics in Nature and Society</i>, Volume 2023, Article ID 3411475</p> <p>Impact Factor: 1.457 Quartile: 3 Citations: 6 DOI: https://doi.org/10.1155/2023/3411475</p>	2023
<p>A new look of interval-valued intuitionistic fuzzy sets in ordered AG-groupoids with applications</p> <p><i>Faisal Yousafzai Muhammad Danish Zia Mohammed M. Khalaf Rashad Ismail</i> <i>AIMS Mathematics</i>, Volume 8, Issue 3, Pages 6095-6118</p> <p>Impact Factor: 2.739 Quartile: 1 Citations: 8 DOI: 10.3934/math.2023308</p>	2022
<p>Complex Linear Diophantine Fuzzy Sets over AG-Groupoids with Applications in Civil Engineering</p> <p><i>Hao Guan Faisal Yousafzai Muhammad Danish Zia Murad-ul-Islam Khan Muhammad Irfan Kostaq Hila</i> <i>Symmetry</i>, Volume 15(1), Article Number 74</p> <p>Impact Factor: 2.7 Quartile: 2 Citations: 9 DOI: 10.3390/sym15010074</p>	2022
<p>Experimental Analysis of Embankment on Soft Soil Improved with Bottom Ash Columns</p> <p><i>Arshad Ullah Azman Kassim Sarfraz Ahmed Rafi Ullah Muhammad Junaid Muhammad Danish Zia</i> <i>Transportation Geotechnics</i>, Volume 37, Article Number 100881</p> <p>Impact Factor: 4.938 Quartile: 1 Citations: 13 DOI: https://doi.org/10.1016/j.trgeo.2022.100881</p>	2022
<p>A trace formula, perturbation determinant and Levinson's theorem for a class of star graphs</p> <p><i>Muhammad Usman Muhammad Danish Zia</i> <i>European Physical Journal Plus</i>, Volume:137, Issue:6,</p> <p>Impact Factor: 3.758 Quartile: 2 Citations: 1 DOI: https://doi.org/10.1140/epjp/s13360-022-02839-9</p>	2022
<p>On Smallest (generalized) Ideals and Semilattices of (2,2)-regular Non-associative Ordered Semigroups</p>	2022

Faisal Yousafzai Mohammed M. Khalaf Muhammad Danish Zia
Boletim da Sociedade Paranaense de Matematica, Volume 40, Pages 1-13

Impact Factor: N/A | **Citations:** 1
DOI: <https://doi.org/10.5269/bspm.42419>

Sharp Spectral Inequalities for Fourth Order Differential Operators on Semi-Axis

2019

Muhammad Danish Zia Muhammad Usman
Mathematical Physics, Analysis and Geometry, Volume 22, Article Number 24

Impact Factor: 1.190 | **Quartile:** 2 | **Citations:** 1
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