

Farkhanda Afzal

Associate Professor

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About

Dr. Farkhanda Afzal is working as Associate Professor in the Military College of Signals. Dr. Farkhanda Afzal has a PhD in Applied Mathematics. Dr. Farkhanda Afzal has published 109 research articles & conference papers having a citation count of 773, carried out 3 projects and filed 0 intellectual property.

Qualifications

PhD in Applied Mathematics Beihang university , China	2012 - 2016
MS in Mathematics University of the Punjab , Pakistan	2006 - 2008
BS in Mathematics University of the Punjab , Pakistan	2002 - 2006
F.Sc in Pre Medical BSE, Karachi , pakistan (Duplicate)	2001 - 2001

Experience

Associate Professor Military College of Signals	2023- Present
Assistant Professor Military College of Signals	2018 - 2023
Lecturer Mathematics KRL model college for girls Kahuta , Khan research laboratories, KRL, Kahuta	2018 - 2018
Visiting Lecturer Beihang University Beijing China , 36 Xueyuan Lu, 100096 Beijing	2013 - 2015
Lecturer Punjab Public Service Commission , Govt Degree College Pindighep District Attock	2009 - 2011
Lecturer University of Education , Bank road campus, Lahore	2008 - 2009

Awards

Young Researcher Selected as top 200 Young researcher from world by Heidelberg Laureate Forum, Germany.	2018
Best Presentation Best Oral Presentation award at ICMAE 2016, London, United Kingdom	2016
Invited Speaker Invited Speaker at London Mathematical Society's Women in Mathematics day held on 15 April 2016 at Microsoft Research, Cambridge, United Kingdom	2016
Invited Speaker Invited Speaker at Guangxi University for Nationalities, Nanning, China, May 2015	2015
Essay Writing Got second position in English Essay Writing competition 2014 by International School Beihang University, Beijing, China	2014

Research Projects

National Projects

PIE (Partnership in Equality) for UK-Pakistan Women in Robotics & AI Funding Agency: British Council Amount: PKR 1,056,208,566.00 Status: Approved_inprocess	2023
CubeSat mission for glacier monitoring and disaster prediction Funding Agency: APSCO Amount: PKR 27,815,300.00 Status: Approved_inprocess	2024
Bridging Gender Gap in STEM Pakistan: Workshop on Female Role Model Outreach Funding Agency: AlumNode Funding 2021. UK Amount: PKR 876,945.00 Status: Completed	2021

International Projects

Research Articles

Advances in bioconvection of Casson nanofluids over a stretching sheet: Influence of thermal radiation and activation energy <i>Farkhanda Afzal Tahir Kamran Muhammad Bilal Riaz</i> <i>Journal of Radiation Research and Applied Sciences</i> , Volume 18, Issue 3, Article Number 101598 Impact Factor: 2.500 Quartile: 2 DOI: 10.1016/j.jrras.2025.101598	2025
Numerical simulation of graphene Maxwell nanofluid flow with thermal radiation and slips conditions along a linearly stretched sheet <i>Tahir Kamran Farkhanda Afzal Muhammad Bilal Riaz</i> <i>Results in Engineering</i> , Volume: 25, Article Number: 104487, Pages:09 Impact Factor: 6.000 Quartile: 1 DOI: https://doi.org/10.1016/j.rineng.2025.104487	2025
Advanced heat transfer analysis of 3D magnetohydrodynamic nanofluid flow over an extending sheet with thermal radiation and internal heat generation/absorption <i>Farkhanda Afzal Tahir Kamran</i> <i>Multiscale and Multidisciplinary Modeling, Experiments and Design</i> , Volume 8, Article Number 113 Impact Factor: 1.900 Quartile: 2 Citations: 3 DOI: https://doi.org/10.1007/s41939-024-00693-z	2024
C2B: A Semantic Source Code Retrieval Model using CodeT5 and Bi-LSTM <i>Nazia Bibi Ayesha Maqbool Tauseef Ahmad Rana Farkhanda Afzal Adnan Ahmed Khan</i> <i>Applied Sciences</i> , Volume 14(13), Article Number 5795 Impact Factor: 2.500 Quartile: 1 Citations: 2 DOI: https://doi.org/10.3390/app14135795	2024
Multiple attribute group decision making approach for selection of robot under induced bipolar neutrosophic aggregation operators <i>Farkhanda Afzal Ayesha Maqbool Saleem Abdullah Ali Akgül Abdul Bariq Muhammad Jamil</i> <i>Complex & Intelligent Systems</i> , Pages: 18 Impact Factor: 5.8 Quartile: 2 Citations: 8 DOI: 10.1007/s40747-023-01264-4	2024
The connectivity indices concept of neutrosophic graph and their application of computer network, highway system and transport network flow <i>M. Kaviyarasu Muhammad Aslam Farkhanda Afzal Maha Mohammed Saeed Arif Mehmood Saeed Gul</i> <i>Scientific Reports</i> , Volume 14, Article Number: 4891 Impact Factor: 3.800 Quartile: 1 Citations: 3 DOI: https://doi.org/10.1038/s41598-024-54104-x	2024
Solving the generalized equal width wave equation via sextic B-spline collocation technique <i>Muhammad Nasir Shamoona Jabeen Farkhanda Afzal</i>	2023

Impact Factor: N/A | **Citations:** 21

DOI: <https://sciendo.com/article/10.2478/ijmce-2023-0019>

New FxLMAT based Algorithms for Active Control of Impulsive Noise

2023

Alina Mirza Farkhanda Afzal Ayesha Zeb Abdul Wakeel Waqar Shahid Qureshi Ali Akgul

IEEE Access, Volume 11, Pages 81279-81288

Impact Factor: 3.9 | **Quartile:** 2 | **Citations:** 8

DOI: 10.1109/ACCESS.2023.3293647

Construction of nonlinear component of block cipher using coset graph

2023

Adil Waheed Fazli Subhan Mazlihan Mohd Soud Muhammad Yasir Hayat Malik Alina Mirza Farkhanda Afzal

AIMS Mathematics, Volume 8(9), Pages 21644-21667

Impact Factor: 2.2 | **Quartile:** 1 | **Citations:** 9

DOI: 10.3934/math.20231104

Power quality improvement of a distribution system integrating a large scale solar farm using hybrid modular multilevel converter with ZSV control

2023

Hira Razik Munira Batool Saleem Riaz Farkhanda Afzal Ali Akgul Muhammad Bilal Riaz

Ain Shams Engineering Journal, Volume 14, Issue 7, Article Number 102218

Impact Factor: 4.790 | **Quartile:** 1 | **Citations:** 13

DOI: <https://doi.org/10.1016/j.asej.2023.102218>

Enhancing Semantic Code Search with Deep Graph Matching

2023

Nazia Bibi Ayesha Maqbool Tauseef Rana Farkhanda Afzal Ali Akgul Sayed M. El Din

IEEE Access, Volume 11, Pages 52392-52411

Impact Factor: 3.476 | **Quartile:** 2 | **Citations:** 4

DOI: 10.1109/ACCESS.2023.3263878

Volume of Fluid Simulations of Heat Transfer in Liquid-Liquid Segmented Flows in Microfluidic channel

2023

Shazia Bashir Saad Shaukat Mustafa Inc Muhammad Bashir Ayesha Maqbool Muhammad Sajid Iqbal Farkhanda Afzal

Microgravity Science and Technology, Volume 35, Article Number: 16

Impact Factor: 1.642 | **Quartile:** 3

DOI: doi.org/10.1007/s12217-023-10041-4

Entropic analysis of cilia-modulated slip flow of trimetallic nanofluid through electroosmotic corrugated pump in the presence of inclined magnetic field

2023

Sufian Munawar Najma Saleem Farkhanda Afzal Arif Mehmood Malik Khurram Shahzad Awan Poom Kumam

Scientific Reports, Volume 13, Issue 1, Article Number 3685

Impact Factor: 4.996 | **Quartile:** 2 | **Citations:** 10

DOI: 10.1038/s41598-023-30979-0

Numerical investigation of treated brain glioma model using a two-stage successive over-relaxation method

2023

Abida Hussain Mohana Sundaram Muthuvalu Ibrahima Faye Mudassar Zafar Mustafa Inc Farkhanda Afzal Muhammad Sajid Iqbal

Computers in Biology and Medicine, Volume 153, Article Number 106429

Impact Factor: 6.698 | **Quartile:** 1 | **Citations:** 6

DOI: 10.1016/j.combiomed.2022.106429

Existence theories and exact solutions of nonlinear PDEs dominated by singularities and time noise

2023

Muhammad Ozair Ahmad Rishi Naeem Muhammad Akhtar Tarar Muhammad Sajid Iqbal Mustafa Inc Farkhanda Afzal

Nonlinear Analysis: Modelling and Control, Vol 28, No 2, Pages:194-208

Impact Factor: 2.217 | **Quartile:** 1 | **Citations:** 3

DOI: doi.org/10.15388/namc.2023.28.30563

An Intelligent Platform for Software Component Mining and Retrieval

2023

Nazia Bibi Tauseef Rana Ayesha Maqbool Farkhanda Afzal Ali Akgul Manuel De la Sen

Sensors, Volume 23, Issue 1, Article Number 525

Impact Factor: 3.847 | **Quartile:** 2 | **Citations:** 2

DOI: <https://doi.org/10.3390/s23010525>

Parallelization of lattice boltzmann method for CFD using message passing interface

2022

Shazia Bashir Anila Usman Yasir Usman Khalel H. Mehmoud Abdullah S. A. Alsubail Farkhanda Afzal Mustafa Inc Muhammad Bashir

Thermal Science, Volume 26, Issue Spec. issue 1, Pages 211-218

Impact Factor: 1.7 | **Quartile:** 4

DOI: https://doi.org/10.2298/TSCI22S1211B	
Simulations of convective heat transfer in rectangular microchannel using thermal lattice Boltzmann method <i>Shazia Bashir Muhammad Bashir Khalel H. Mehmoud Abdullah S. A. Alsubail Farkhanda Afzal Mehboob Alam Mustafa Inc Thermal Science</i> , Volume 26, Issue Spec. issue 1, Pages 219-228 Impact Factor: 1.7 Quartile: 4 Citations: 1 DOI: https://doi.org/10.2298/TSCI22S1219B	2022
Federated learning based nonlinear two-stage framework for full-reference image quality assessment: An application for biometric <i>LanTianyi Saleem Riaz Zhang Xuande Alina Mirza Farkhanda Afzal Zeshan Iqbal Muhammad Attique Khan Majed Alhaisoni Abdullah Alqahtani Image and Vision Computing</i> , Volume 128, Article Number 104588 Impact Factor: 3.860 Quartile: 1 Citations: 5 DOI: https://doi.org/10.1016/j.imavis.2022.104588	2022
ABC Fractional Derivative for Varicella-Zoster Virus Using Two-Scale Fractal Dimension Approach with Vaccination <i>Jirong Yang Farkhanda Afzal Perpetual Appiah Advances in Mathematical Physics</i> , Volume 2022, Article ID 1725110, 10 pages Impact Factor: 1.364 Quartile: 3 Citations: 7 DOI: https://doi.org/10.1155/2022/1725110	2022
Einstein Aggregation Operators under Bipolar Neutrosophic Environment with Applications in Multi-Criteria Decision-Making <i>Muhammad Jamil Farkhanda Afzal Ali Akgul Saleem Abdullah Ayesha Maqbool Abdul Razzaque Muhammad Bilal Riaz Jan Awrejcewicz Applied Sciences</i> , Volume 12(19), Article Number 10045 Impact Factor: 2.9 Quartile: 2 Citations: 12 DOI: https://doi.org/10.3390/app121910045	2022
Effect of Heat Treatment on Microstructure and Mechanical Properties of Ti6Al4V Alloy Fabricated by Selective Laser Melting <i>Muhammad Waqas Dingyong He Yude Liu Saleem Riaz Farkhanda Afzal Journal of Materials Engineering and Performance</i> , Pages 1-15 Impact Factor: 2.036 Quartile: 4 Citations: 28 DOI: https://doi.org/10.1007/s11665-022-07106-7	2022
Experimental and Numerical Research of Paved Microcrack Using Histogram Equalization for Detection and Segmentation <i>Asad Ullah Zhaoyun Sun Hassan Elahi Farkhanda Afzal Amna Khatoon Nasir Sayed Ishfaq Ahmad Mathematical Problems in Engineering</i> , Volume 2022, Article ID 2684983, 13 pages Impact Factor: 0 Citations: 7 DOI: https://doi.org/10.1155/2022/2684983	2022
Robust and Least Complex Online Secondary Path Estimation in Broadband Feed-Forward Active Control of Impulsive Noise using FxLMAT Family <i>HAHSIR ALI KHAN Alina Mirza Abdul Wakeel MIR YASIR UMAIR Fareeha Jabeen Farkhanda Afzal IEEE Access</i> , Volume 10, Pages 58667-58676 Impact Factor: 3.367 Quartile: 2 Citations: 1 DOI: 10.1109/ACCESS.2022.3178598	2022
Thermal Case Study of Cilia Actuated Transport of Radiated Blood-Based Ternary Nanofluid under the Action of Tilted Magnetic Field <i>Najma Saleem Tahreem Ashraf Ibtisam Daqqa Sufian Munawar Nazeeran Idrees Farkhanda Afzal Deeba Afzal Coatings</i> , Volume 12, Issue 6, Article Number 873 Impact Factor: 3.236 Quartile: 2 Citations: 24 DOI: https://doi.org/10.3390/coatings12060873	2022
Comprehensive note on characterization of neutrosophic soft P-open sets in neutrosophic soft quad-topological space <i>Arif Mehmood Samer Al Ghour Farkhanda Afzal Nordo Giorgio Najma Saleem Journal of Intelligent and Fuzzy Systems</i> , Volume 43, Issue 1, Pages 1519-1540 Impact Factor: 2.0 Quartile: 4 Citations: 3 DOI: DOI:10.3233/JIFS-212547	2022

Analysis and Power Quality Improvement in Hybrid Distributed Generation System with Utilization of Unified Power Quality Conditioner <i>Noor Zainab Munira Batool Saleem Riaz Farkhanda Afzal Sufian Munawar Ibtisam Daqqa Najma Saleem</i> <i>Computer Modelling in Engineering & Sciences</i> , Pages 1-33 Impact Factor: 2.027 Quartile: 2 Citations: 17 DOI: DOI: 10.32604/cmescs.2022.021676	2022
System-Level Performance Analysis of Cooperative Multiple Unmanned Aerial Vehicles for Wildfire Surveillance Using Agent-Based Modeling <i>Ayesha Maqbool Alina Mirza Farkhanda Afzal Tajamul shah Wazir Zada Khan Yousaf Bin Zikria Sung Won Kim</i> <i>Sustainability</i> , Volume 14(10), Article Number 5927 Impact Factor: 3.251 Quartile: 2 Citations: 5 DOI: https://doi.org/10.3390/su14105927	2022
New Degree-Based Topological Indices of Toroidal Polyhex Graph by Means of M-Polynomial <i>Farkhanda Afzal Mohammad Zeeshan Deebea Afzal Sufian Munawar Dhan Kumari Thapa Alina Mirza</i> <i>Journal of Mathematics</i> , Volume 2022, Article ID 1228203, 5 pages Impact Factor: 0.971 Quartile: 2 DOI: https://doi.org/10.1155/2022/1228203	2022
Topological Properties of Degree-Based Invariants via M-Polynomial Approach <i>Samirah Alsulami Sabir Hussain Farkhanda Afzal Mohammad Reza Farahani Deebea Afzal</i> <i>Journal of Mathematics</i> , Volume 2022, Article ID 7120094, 8 pages Impact Factor: 0.971 Quartile: 2 Citations: 4 DOI: https://doi.org/10.1155/2022/7120094	2022
DepTSol: An Improved Deep-Learning- and Time-of-Flight- Based Real-Time Social Distance Monitoring Approach under Various Low-Light Conditions <i>Adina Rahim Ayesha Maqbool Alina Mirza Farkhanda Afzal Ikram Asghar</i> <i>Electronics</i> , 11(3), 458 Impact Factor: 2.397 Quartile: 3 Citations: 7 DOI: 10.3390/electronics11030458	2022
Neutrosophic soft bi-topological structures concerning some special neutrosophic soft open sets <i>Arif Mehmood Samer Al Ghour M Imran Khan Farkhanda Afzal Muhammad Ishfaq Humaira Qureshi</i> <i>Journal of Intelligent and Fuzzy Systems</i> , Volume:43, Issue:1, Page:125-142 Impact Factor: 2.0 Quartile: 4 DOI: 10.3233/JIFS-211492	2022
Investigation on Boron Alpha Nanotube by Studying Their M-Polynomial and Topological Indices <i>Deebea Afzal Farkhanda Afzal Sabir Hussain Faryal Chaudhry Dhana Kumari Thappa</i> <i>Journal of Mathematics</i> , Volume 2022, Article ID 6136168, 7 pages Impact Factor: 0.971 Quartile: 2 Citations: 6 DOI: 10.1155/2022/6136168	2022
The Study about Relationship of Direct Form of Topological Indices via M-Polynomial and Computational Analysis of Dexamethasone <i>Sabir Hussain Farkhanda Afzal Deebea Afzal Dhana Kumari Thappa</i> <i>Journal of Chemistry</i> , Volume 2022, Article ID 4912143, 10 pages Impact Factor: 2.506 Quartile: 3 Citations: 2 DOI: https://doi.org/10.1155/2022/4912143	2022
Neutrosophic Soft Quad Structures Concerning Neutrosophic Soft Points <i>Arif Mehmood Farkhanda Afzal M Imran Khan Saleem Abdullah Saeed Gul</i> <i>Mathematical Problem in Engineering</i> , Volume 2022, Article ID 8483632, 12 pages Impact Factor: 1.305 Quartile: 3 Citations: 6 DOI: https://doi.org/10.1155/2022/8483632	2022
Characterization of Bipolar Vague Soft S -Open Sets <i>Farkhanda Afzal Arif Mehmood Samer Al Ghour Mudasar Zafar Hamzah Sakidin Saeed Gul</i> <i>Journal of Function Spaces</i> , Volume 2022, Article ID 5964872, 13 pages Impact Factor: 1.281 Quartile: 2 Citations: 6 DOI: https://doi.org/10.1155/2022/5964872	2022

An Absolutely New Attempt to Vague Soft Bitopological Spaces Basis at Newly Defined Operations regarding Vague Soft Points <i>Farkhanda afzal Muhammad Imran Khan Saeed Gul Arif Mehmood Saleem Abdullah</i> <i>Mathematical Problems in Engineering</i>, Volume 2021, Article ID 4408754, 11 pages Impact Factor: 1.430 Quartile: 3 Citations: 5 DOI: 10.1155/2021/4408754	2021
An Accelerated Error Convergence Design Criterion and Implementation of Lebesgue-p Norm ILC Control Topology for Linear Position Control Systems <i>Saleem Riaz Hui Lin Muhammad Waqas Farkhanda afzal Kai Wang Nasir Saeed</i> <i>Mathematical Problems in Engineering</i>, Volume 2021, Article ID 5975158, 12 pages Impact Factor: 1.430 Quartile: 3 Citations: 11 DOI: https://doi.org/10.1155/2021/5975158	2021
A comparative analysis of consensus protocols for dealing power theft issue in Pakistan. <i>Ayesha Maqbool Sumaera Sattar Amna Naheed Sana Khalid Tauseef Ahmad Rana Farkhanda Afzal Murat Cancan</i> <i>Journal of Information and Optimization Sciences</i>, Volume 42(7), Pages 1523-1540 Impact Factor: N/A DOI: 10.1080/02522667.2021.1934100	2021
Topological analysis of zigzag-edge coronoid graph by using M-polynomial <i>Muhammad Ehsan Sumera Sattar Faryal Chaudhry Farkhanda Afzal Muhammad Raza Farhani Murat Cancan</i> <i>Eurasian Chemical Communications</i>, Volume 3, Issue 9, Pages 590-597 Impact Factor: - Citations: 4 DOI: 10.22034/ECC.2021.293152.1193	2021
Calculating the topological indices of Starphene graph via M-polynomial approach <i>Faryal Chaudhry Sumera Sattar Muhammad Ehsan Farkhanda Afzal Muhammad Raza Farhani Murat Cancan</i> <i>Eurasian Chemical Communications</i>, Volume 3, Pages 656-664 Impact Factor: - DOI: 10.22034/ECC.2021.293170.1194	2021
FxRLS Algorithms Based Active Control of Impulsive Noise with Online Secondary Path Modeling <i>Fareeha Jabeen Alina Mirza Ayesha Zeb Muhammad Imran Farkhanda Afzal Ayesha Maqbool</i> <i>IEEE Access</i>, Volume 9, Pages 117471-117485 Impact Factor: 3.476 Quartile: 2 Citations: 9 DOI: 10.1109/ACCESS.2021.3105902	2021
On Computation of Recently Defined Degree-Based Topological Indices of Some Families of Convex Polytopes via M-Polynomial <i>Deeba Afzal Farkhanda Afzal Mohammad Reza Farahani Samia Al</i> <i>Complexity</i>, Volume 2021, Article ID 5881476, 11 pages Impact Factor: 2.121 Quartile: 2 DOI: https://doi.org/10.1155/2021/5881476.	2021
Computational analysis of new degree-based descriptors of Zig-Zag Benzenoid system <i>Farkhanda Afzal Muhammad Zaman Faryal Chaudhry Deeba Afzal Muhammad Raza Farhani Murat Cancan</i> <i>Eurasian Chemical Communications</i>, Volume 3, Issue 6, Pages 418-424 Impact Factor: - DOI: 10.22034/ECC.2021.284310.1174	2021
Degree-based entropy of molecular structure of HAC5C7[P,Q] <i>farkhanda Afzal Murat Cancan Suleman Ediz Deeba Afzal Faryal chaudhry Mohammad Reza Farhani</i> <i>Eurasian Chemical Communications</i>, Volume 3, Issue 5, Pages 291-295 Impact Factor: - Citations: 2 DOI: 10.22034/ECC.2021.278787.1156	2021
Topological indices of the system of generalized prisms via M-Polynomial approach <i>Farkhanda Afzal Mohammad Reza Farhanai Murat Can Can Faiza Arshad Deeba Afzal Faryal Chaudhry</i> <i>Eurasian Chemical Communications</i>, Volume 3, Issue 5, Pages 296-300 Impact Factor: - Citations: 5 DOI: 10.22034/ECC.2021.278749.1155	2021
Thermodynamics Inspired Co-operative Self-Organization of Multiple Autonomous Vehicles <i>Farkhanda Afzal Tauseef Rana Alina Mirza Ayesha Maqbool</i>	2021

<i>Intelligent Automation & Soft Computing</i> , Volume 28, No.3, Pages 653-667	
Impact Factor: 3.401 Quartile: 2 Citations: 2	
DOI: doi:10.32604/iasc.2021.017506	
A future concern of iterative learning control : A survey	2021
<i>Saleem Riaz Lin Hui Mehmet Serif Aldemir Farkhanda Afzal</i>	
<i>Journal of Statistics and Management Systems</i> , Volume 24, Issue 6, Pages 1301-1322	
Impact Factor: -	
DOI: https://doi.org/10.1080/09720510.2020.1856421	
On computation of latest topological descriptors of some cactus chains graphs via M-polynomial	2021
<i>Hina Hussain Deebea Afzal Mohammad Raza Ferahani Murat Cancan Suleyman Ediz Farkhanda Afzal</i>	
<i>Journal of Information & Optimization Sciences</i> , Pages 1-10	
Impact Factor: -	
DOI: https://doi.org/10.1080/02522667.2021.1896651	
Design and Implementation of Novel LMI-Based Iterative Learning Robust Nonlinear Controller	2021
<i>Saleem Riaz Hui Lin Farkhanda Afzal Ayesha Maqbool</i>	
<i>Complexity</i> , Volume 2021, Article ID 5577241, 13 pages	
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A study of non-commutative von-neumann regular rings	2021
<i>Farkhanda Afzal Shah Rukh Deebea Afzal Mohammad Reza Farahani Murat Cancan Suleyman Ediz</i>	
<i>Journal of Information & Optimization Sciences</i> , Pages 1-11	
Impact Factor: -	
DOI: DOI : 10.1080/02522667.2021.1896650	
Characteristic sets verses generalized characteristic sets	2021
<i>Safia Akram Muhammad Ashiq Deebea Afzal Murat Cancan Suleyman Ediz Farkhanda Afzal</i>	
<i>Journal of Discrete Mathematical Sciences and Cryptography</i> , Volume 24, Issue 2, Pages 439-450	
Impact Factor: - Citations: 3	
DOI: https://doi.org/10.1080/09720529.2021.1882160	
A study of newly defined degree-based topological indices via M-polynomial of Jahangir graph	2021
<i>Deebea Afzal Samia Ali Murat Cancan Suleman Ediz Mohammad Reza Farhani Farkhanda Afzal</i>	
<i>Journal of Discrete Mathematical Sciences and Cryptography</i> , Volume 24, Issue 2, Pages 427-438	
Impact Factor: 0 Citations: 22	
DOI: https://doi.org/10.1080/09720529.2021.1882159	
Analyzing the boron triangular nanotube through topological indices via M-polynomial	2021
<i>Sabir Hussain Deebea Afzal Murat Cancan Suleman Ediz Mohammad Reza Farhani Farkhanda Afzal</i>	
<i>Journal of Discrete Mathematical Sciences and Cryptography</i> , Volume 24, Issue 2, Pages 415-426	
Impact Factor: - Citations: 23	
DOI: https://doi.org/10.1080/09720529.2021.1882158	
Modified 2-Way Wavefront (M2W) Algorithm for Efficient Path Planning	2021
<i>Ayesha Maqbool Alina Mirza Farkhanda Afzal</i>	
<i>International Journal of Computational Intelligence Systems</i> , Volume 14, Issue 1, Pages 1066-1077	
Impact Factor: 2.259 Quartile: 3	
DOI: https://doi.org/10.2991/ijcis.d.210305.002	
Theoretical study of benzene ring embedded in P-type surface in 2d network using some new degree based topological indices via M-polynomial	2021
<i>Sabir Hussain Farkhanda Afzal Deebea Afzal Mohammad Raza Ferahani Murat Cancan Suleyman Ediz</i>	
<i>Eurasian Chemical Communications</i> , Volume 3, Issue 3, Pages 180-186	
Impact Factor: 0 Citations: 16	
DOI: http://dx.doi.org/10.22034/ecc.2021.272315.1134	
Supervised ensemble learning methods towards automatically filtering Urdu fake news within social media	2021
<i>Muhammad Pervez Akhter Jiangbing Zhang Atif Mehmood Hui Lin Saleem Riaz Farkhanda Afzal</i>	
<i>PeerJ Computer Science</i> , Volume 7, Article Number e425	
Impact Factor: 2.411 Quartile: 2 Citations: 33	
DOI: DOI:10.7717/peerj-cs.425	

Computing M-polynomial and topological indices of TUHRC4 molecular graph <i>Farkhanda Afzal Faryal Chaudhry Muhammad Ehsan Mohammad Reza Farahani Murat Cancan</i> <i>Eurasian Chemical Communications</i> , Volume 3(2), Pages 103-109 Impact Factor: 0 Citations: 6 DOI: 10.22034/ECC.2021.269115.1124	2021
Degree based topological indices of tadpole graph via M-polynomial <i>Faryal chaudhry Muhammad Ehsan Farkhanda Afzal Mohammad Raza Farahani Murat Cancan Idris Ciftci</i> <i>Eurasian Chemical Communications</i> , Volume 3, Pages 146-153 Impact Factor: 0 Citations: 8 DOI: 10.22034/ECC.2021.269116.1125	2021
Closed Formulas for Some New Degree Based Topological Descriptors Using M-polynomial and Boron Triangular Nanotube <i>Farkhanda Afzal Dong Yun Shin Choonkil Park Sabir Hussain Deebea Afzal Mohammad R. Farahani</i> <i>Frontier in Chemistry</i> , Volume 8, Article 613873 Impact Factor: 5.545 Quartile: 2 Citations: 26 DOI: doi:10.3389/fchem.2020.613873	2021
Weighted entropies of Tuc5c8[P;Q] nanotube with the degree based topological indices as weights <i>Farkhanda Afzal Faiza Afzal Deebea Afzal Mohammad Reza Farahani Murat Cancan Süleyman Ediz</i> <i>Eurasian Chemical Communications</i> , Volume 3, Issue 1, Pages 14-18 Impact Factor: - Citations: 2 DOI: 10.22034/ECC.2021.120281	2021
Weighted entropies of HAC5C7[p;q] nanotube <i>Farkhanda Afzal Faiza Afzal Deebea Afzal Mohammad Reza Farahani Zahid Hussain Murat Cancan</i> <i>Eurasian Chemical Communications</i> , Volume 3, Issue 1, Pages 1-5 Impact Factor: - Citations: 3 DOI: 10.22034/ECC.2021.119835	2021
The first and second Zagreb polynomial and the forgotten polynomial of $C_m \times C_n$ <i>Farkhanda Afzal Mohammad Reza Farahani Murat Cancan Süleyman Ediz Deebea Afzal Abdul Qudair Baig</i> <i>Eurasian Chemical Communications</i> , Volume 2, Pages 1183-1187 Impact Factor: - Citations: 2 DOI: 10.22034/ECC.2020.256293.1097	2020
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