

CURRICULUM VITAE

Dr. Qaisar Khan

S/O

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JOB OBJECTIVE

An ambitious, qualified, committed, and enthusiastic academic aiming to broaden horizons in the field of Algebra.

AREAS OF INTEREST

Neutrosophic Theory, Fuzzy Algebraic Structures, Soft Sets, Decision Making

ACADEMIC QUALIFICATION

| Degree/ Certificate | Institution | Session | Major Courses/Division |
|---|--|-----------|---|
| Ph.D. (Mathematics) | International Islamic University Islamabad Pakistan | 2015-2019 | Near Ring, Topics in Algebra, Advanced perturbation Methods, Ordered Vector spaces, Advances in Analysis, Approximation Theory. |
| Ph.D. Research Thesis Title: Generalizations of Neutrosophic Sets with Applications in Decision Making | | | |
| MS (Mathematics) | International Islamic University Islamabad Pakistan | 2012-2014 | Advanced Mathematical Methods, Partial Differential Equation, Theory of Semirings, Advance Mathematical Analysis, Fuzzy algebra, Fixed point Theory, Theory of group Action, Advanced linear algebra. 1 st Div |
| M.Sc. (Mathematics) | Govt. Post Graduate Jahan Zeb college Saidu Sharif Swat. | 2008-2010 | 1 st Div |
| B.S.c | Govt. Post Graduate Jahan Zeb college Saidu Sharif Swat. | 2004-2006 | 1 st Div |
| F.S.c | Govt. Post Graduate Jahan Zeb college Saidu Sharif Swat. | 2001-2003 | 2 nd Div |
| SSC | Govt. Higher Secondary School Charbagh Swat | 2000-2001 | 1 st Div |
| B.Ed. | University of Malakand. | 2012 | 1 st Div |

Research Profile:

Published Papers:

- 1) Tahir Mahmood, Saleem Abdullah and **Qaisar Khan**, Regular Cubic Language and Regular Cubic Expression, *Advances in Fuzzy Sets and Systems*, 20(2) (2015) 97-132.
- 2) Tahir Mahmood, **Qaisar Khan** and Mohsin Ali, Q-Single Valued Neutrosophic Sets, *Journal of New Theory*, 13 (2016) 10-25.
- 3) **Qaisar Khan**, Peide Liu and Tahir Mahmood, Some Generalized Dice Measures for Double-Valued Neutrosophic Sets and Their Applications, *mathematics*, 6 (2018) 121
I. F. 2.258.
- 4) **Qaisar Khan**, Nasruddin Hassan and Tahir Mahmood, Neutrosophic Cubic Power Muirhead Mean Operators with Uncertain Data for Multi-Attribute Decision Making, *Symmetry*, 10 (2018) 444, **I. F. 2.713.**
- 5) Peide Liu, **Qaisar Khan**, Jun Ye and Tahir Mahmood, Group Decision-Making Method Under Hesitant Interval Neutrosophic Uncertain Linguistic Environment, *International Journal of Fuzzy Systems*, 20(7)(2018) 2337-2353 **I. F. 4.673.**
- 6) **Qaisar Khan**, Peide Liu, Tahir Mahmood, Florentin Smarandache and Kifayat Ullah, Some Interval Neutrosophic Dombi Power Bonferroni Mean Operators and Their Application in Multi Attribute Decision Making, *Symmetry* 10(2018) 459, **I. F. 2.713.**
- 7) Tahir Mahmood and **Qaisar Khan** Interval Neutrosophic finite switchboard state machine, *Afrika Matematika*, 27 (2016) 1361-1376.
- 8) **Qaisar Khan**, Tahir Mahmood and Jun Ye Multiple Attribute Decision-Making Method under Hesitant Single Valued Neutrosophic Uncertain Linguistic Environment, *J. of Inequalities and Special Functions*. 2 (2017) 1-17.
- 9) Tahir Mahmood, Faisal Mehmood and **Qaisar Khan**, Cubic Hesitant Fuzzy Sets and Their Applications to Multi Criteria Decision Making, *International Journal of Algebra and Statistics*, 5 (1) (2016) 19-51.
- 10) Tahir Mahmood, Faisal Mehmood and **Qaisar Khan**, Some Generalized Aggregation Operators for Cubic Hesitant Fuzzy Sets and Their Applications to Multi Criteria Decision Making, *Punjab University Journal of Mathematics* 49 (1) (2017) 31-49 **(HEC Recognised)**
- 11) Tahir Mahmood, Jun Ye and **Qaisar Khan**, Vector Similarity Measures for Simplified Neutrosophic Hesitant Fuzzy Set and Their Applications, *J. of Inequalities and Special Functions* 7 (4) (2016) 176-194.
- 12) Peide Liu, Tahir Mahmood and **Qaisar Khan**, Multi-Attribute Decision-Making Based on Prioritized Aggregation Operator under Hesitant Intuitionistic Fuzzy Linguistic Environment, *Symmetry*, 9(11) (2017) 270. **I. F. 2.713**
- 13) Tahir Mahmood, Kifayat Ullah, Murad Ullah Khan, Naeem Jan, Irfan Deli, **Qaisar Khan**, Some Aggregation Operators for Bipolar-Valued Hesitant Fuzzy Information based

on Einstein Operational Laws, Journal of Engineering and Applied Sciences, 36(2)(2017) 63-72.

- 14) Tahir Mahmood, Kifayat Ullah, **Qaisar Khan** and Florentin Smarandache, Some Aggregation Operators For Bipolar-Valued Hesitant Fuzzy Information, Journal of Fundamental and Applied Sciences, 10(4S) (2018) 240-245.
- 15) Peide Liu, Tahir Mahmood and **Qaisar Khan**, Group Decision Making Based on Power Heronian Aggregation Operators Under Linguistic Neutrosophic Environment, International Journal of Fuzzy Systems, 20(3) (2018) 970-985, **I. F. 4.673**
- 16) Tahir Mahmood, Peide Liu, Jun Ye and **Qaisar Khan**, Several hybrid aggregation operators for triangular intuitionistic fuzzy set and their application in multi-criteria decision making, Granular Computing, 3 (2018) 153-168.
- 17) Shahzaib Ashraf, Tahir Mahmood, Saleem Abdullah and **Qaisar Khan**, Picture Fuzzy Linguistic Sets and Their Applications for Multi-Attribute Group Decision Making Problems, The Nucleus, 55 (2) (2018) 66-73. **(HEC Recognised)**
- 18) Kifayat Ullah, Tahir Mahmood, Naeem Jan, Said Broumi and **Qaisar Khan**, On Bipolar-Valued Hesitant Fuzzy Sets and Their Applications in Multi-Attribute Decision Making, 55(2) (2018) 93-101. **(HEC Recognised)**
- 19) Peide Liu, **Qaisar Khan**, Tahir Mahmood and Nasruddin Hassan, T-Spherical Fuzzy Power Muirhead Mean Operator Based on Novel Operational Laws and Their Application in Multi-attribute Group Decision Making. (2019)22613-22632. IEEE ACCESS, **I.F. 4.098**
- 20) **Qaisar Khan**, Tahir Mahmood and Nasruddin Hassan, Multi Q-Single valued Neutrosophic Soft Expert Set and its Applications in Decision Making, Punjab University Journal of Mathematics.51(4), 131-150 **(HEC Recognised)**.
- 21) Peide Liu, **Qaisar Khan** and Tahir Mahmood Application of Interval Neutrosophic Power Hamy Mean Operators in MAGDM. Informatica. 30(2), 293-325. **I.F. 3.312**
- 22) Qaisar Khan, Lazim Abdullah, Tahir Mahmood, Muhammad Naeem and Saima Rashid MADM Based on Generalized Interval Neutrosophic Schweizer–Sklar Prioritized Aggregation Operators. 11(10), Symmetry **I. F 2.713**
- 23) Zhang, B.; Mahmood, T.; Ahmmad, J.; **Qaisar Khan**.; Ali, Z.; Zeng, S. Cubic q-Rung Orthopair Fuzzy Heronian Mean Operators and Their Applications to Multi-Attribute Group Decision Making. Mathematics **2020**, 8, 1125. **I.F 2.258**
- 24) Peide Liu, Qaisar Khan, Tahir Mahmood “Some Improved Pythagorean Fuzzy Dombi Power Aggregation Operators with Application in Multiple-Attribute Decision Making” Journal of Intelligent & Fuzzy Systems, vol. 40, no. 5, pp. 9237-9257, 2021. **I.F 1.851**
- 25) Shahzaib Ashraf, Tahir Mahmood, Saleem Abdullah and **Qaisar Khan**, DIFFERENT APPROACHES TO MULTI-CRITERIA GROUP DECISION MAKING PROBLEMS FOR PICTURE FUZZY ENVIRONMENT, Bulletin of The Brazilian Mathematical Society, **I. F. 2.258**.
- 26) Peide Liu, **Qaisar Khan** and Tahir Mahmood, Multiple-Attribute Decision Making Based on Single-Valued Neutrosophic Schweizer-Sklar Prioritized aggregation Operator, Cognitive Systems Research (ISSN: 1389-0417), **I. F. 3.523**.
- 27) Peide Liu, **Qaisar Khan** and Tahir Mahmood “Some Single-Valued Neutrosophic Power

Muirhead Mean Operators and Their Application to Group Decision Making” Journal of intelligent and fuzzy systems, 37(2), 2515-2537. **I. F 1.851**

- 28) Peide Liu, **Qaisar Khan** and Tahir Mahmood, Group Decision Making Based on Power Heronian Aggregation Operators under Neutrosophic Cubic Environment, *Soft computing*, 24(3), 1971-1997. **I.F 3.643.**
- 29) Peide Liu, **Qaisar Khan** and Tahir Mahmood, Florentin Smarandache and Ying Li “Multiple Attribute Group Decision Making Based on 2-Tuple Linguistic Neutrosophic Dombi Power Heronian Mean Operators” *IEEE ACCESS (ISSN:2169-3536)*, **I. F. 4.098.**
- 30) Muhammad Irfan Siddiquea, Muhammad Faisal Iqbal, Tahir Mahmood and **Qaisar Khan** “On Lattice Ordered Double Framed Soft Rings” *Punjab Journal of Mathematics* 53(4), 295-306. **(HEC Rec).**
- 31) **Qaisar Khan**, Tahir Mahmood and Kifayat Ullah, “Applications of improved spherical fuzzy Dombi aggregation operators in decision support system” *Soft Computing*, 25, 9097-9119. **I.F 3.643.**
- 32) Kifayat Ullah; Harish Garg; Zunaira Gul; Tahir Mahmood; **Qaisar Khan**; Zeeshan Ali “Interval Valued T-Spherical Fuzzy Information Aggregation based on Dombi t-norm and Dombi t-conorm for Multi-Attribute Decision-Making Problems” *Symmetry* 13 (6), 1053, **I.F 2.713.**
- 33) **Qaisar Khan**, Jeonghwan Gwak Muhammad Shahzad I and Muhammad Kamran Alam “A Novel Approach Based on T-Spherical Fuzzy Schweizer-Sklar Power Heronian Mean Operator for Evaluating Water Reuse Applications under Uncertainty” *Sustainability* 13(13), 7108. **I.F 3.25.**
- 34) Zeeshan Ali, Tahir Mahmood, Kifayat Ullah, **Qaisar Khan** “Einstein Geometric Aggregation Operators using a Novel Complex Interval-valued Pythagorean Fuzzy Setting with Application in Green Supplier Chain Management” *Reports in Mechanical Engineering*. 2(1), 105-134.
- 35) Garg, H., Mahmood, T., Ahmmad, J., **Qaisar Khan** & Ali, Z. (2021). Cubic q-Rung Orthopair Fuzzy Linguistic Set and Their Application to Multiattribute Decision-making with Muirhead Mean Operator. *Journal of Artificial Intelligence and Technology*, 1(1), 37-50.
- 36) Tahir Mahmood, Kifayte ULLAH, **Qaisar Khan** and Naeem Jan “An Approach Towards Decision Making and Medical Diagnosis Problems Using the Concept of Spherical Fuzzy Sets” *Neural Computing with Applications*, 31(11), 7041-7053. **I.F 5.606**

Accepted Papers:

- 1) Tahir Mahmood, Izatmand, Zeeshan Ali, Kifayat Ullah, **Qaisar Khan**, Ahmed Alsanad, Mogebe Mosleh, “Linear Diophantine Uncertain Linguistic Powered Einstein Aggregation Operators and Their Applications to Multi-Attributive Decision Making” *Complexity (Accepted)* **I.F 2.833**

Total Impact Factor 67.41 (Updated)

Conference Accepted Papers:

- 1) Qaisar Khan ,Tahir Mahmood , Khizar Hayat , Muhammad Arif , Valentina Emilia BALAS , Oana Geman Application of Single-Valued Neutrosophic Power Maclaurin Symmetric Mean Operators in MADM (SOFA)

Book Chapters:

- 1) Qaisar Khan, Tahir Mahmood, Kifayatullah, Naeem Jan, DISTANCE AND SIMILARITY MEASURE FOR SIMPLIFIED NEUTROSOPHIC HESITANT FUZZY SET AND ITS APPLICATIONS. *New Trend in Neutrosophic Theory.*
- 2) Qaisar Khan, Tahir Mahmood, Kifayatullah, Naeem Jan, Single Valued Neutrosophic Finite State Machine and Switchboard State Machine. *New Trend in Neutrosophic Theory.*

Submitted Papers:

- 1) **Qaisar Khan**, Tahir Mahmood “Multiple Attribute Group Decision Making Based on Generalized Intuitionistic Fuzzy Schweizer-Sklar Power Aggregation operators” (SUBMITTED)
- 2) **Qaisar Khan**, Tahir Mahmood, Jun Ye “Interval bipolar fuzzy set and its application in multiple criteria decision making” (SUBMITTED)

Refereeing and Reviewing

- 1) IEEE Transactions on Fuzzy Systems
- 2) Computers and Mathematics with Applications
- 3) Neural Computing and Applications
- 4) World Applied Sciences Journal
- 5) International Journal of Algebra and Statistics
- 6) The Nucleus
- 7) Journal of Applied Mathematics and Computing
- 8) African Journal of Mathematics and Computer Science Research
- 9) Cogent Mathematics

CONFERENCES ATTENDED

- 1) Two Days Conference on Mathematical Sciences (IIUI) 2017

TEACHING EXPERIENCE

| Visiting | | | |
|--|---|-----------------------|---|
| Lecturer (Mathematics) | International Islamic University, Islamabad | Feb 7 2017 – Jan 2018 | Teaching Maths of BS and M.Sc. (Group Theory, Basic set Theory, set-topology) |
| Total Teaching Experience: | | | 1Years |
| Assistant Professor in Department of Mathematics Northern University Nowshera (Oct 18th 2019 to November 30th 2020) | | | |

REFERENCES

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| <p>Dr. Tahir Mahmood Assistant Professor, Department of Maths and Stats, International Islamic University, Islamabad, Pakistan</p> | <p>Dr. Muhammad Sajid Associate Professor, Department of Maths and Stats, International Islamic University, Islamabad, Pakistan Mobile Number: 03335128277</p> |
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