Dr. Tahir Mahmood S/O Muhammad Nazir



CNIC #: 37405-0584637-5 D.O.B: March 17, 1975 Marital Status: Married Gender: Male Religion: Islam Domicile: Attock(Pb) Address: H.No. SA-5(SA-2/A-2) Ghazali Road, Sadigabad, Rawalpindi. **Telephone: Off:** +9251-9019770 Mob: +923335126581, +923000999922 Email: <u>tahirbakhat@yahoo.com</u> tahirbakhat@iiu.edu.pk URL Addresses: **Google Scholar:** https://scholar.google.com/citat ions?hl=en&user=E4MTua4AAA AI **Researchgate:** https://www.researchgate.net/p rofile/Tahir-Mahmood-26 Web of Science: https://www.webofscience.com /wos/author/record/Z-4571-2019 **ORCID:** 0000-0002-3871-3845 SciProfile: https://sciprofiles.com/profile/ **TahirMahmood Scopus:** https://www.scopus.com/authi d/detail.uri?authorId=57206168 189

<u>JOB OBJECTIVE</u>

An ambitious, qualified, committed, and enthusiastic academic with a range of teaching experience, aiming to broaden horizons in the field of Algebra.

ACADEMIC QUALIFICATION

Degree/ Certificate	Institution	Session	Major Courses/Divis ion
Ph.D. (Mathematics)	Quid-i-Azam University, Islamabad	2006-2012	Spectral Theory of Hilbert spaces, Homological Algebra-I, Theory of Semirings, Fuzzy Algebra, General Relativity
Ph.I). Researc	h Thesis	Title:
"Some Ch	aracteriza	ations of	f Hemirings
by the	Propertie Ide	es of The als"	eir Fuzzy
M.Phil (Mathematics)	Quid-i-Azam University, Islamabad	2003-2005	Semigroup Theory, Near Rings, Theory of Group Actins, Theory of Group Graphs, Theory of Complex Manifolds, Banach Algebra, Ring Theory-I, Ring Theory-II. / 1 st Div
M.Sc. (Mathematics)	Govt. Post Graduate College Asghar Mall, Rawalpindi	1995-1997	1 st Div
B.A.	Govt. Degree College, Talagang.	1992-1994	1 st Div
F.A.	Govt. Degree College, Fteh Jang.	1990-1992	2 nd Div
SSC	Govt. High School, Chakwal.	1988-1990	1st Div

<u>Affiliation:</u>

Associate Professor, Department of Mathematics and Statistics, Faculty of Sciences, International Islamic University Islamabad, Pakistan.

<u>Awards:</u>

- 1) Won Mathematics Olympiad in 2005 organized by Federal Directorate of Education Islamabad.
- 2) Won NRPU project "Similarity measures of picture hesitant fuzzy sets and their applications" at total cost of Rs.1382383/-, numbered No: 5833/Federal/NRPU/R&D /HEC/2016
- 3) Won NRPU project "Group generalized q-rung orthopair fuzzy soft sets and their applications in decision making problems" of Rs. 3748500/- numbered 20-14662/NRPU/R&D/HEC/2021 2021 as Co-PI.
- 4) Awarded Rs. 70,000/- Research Incentive Award from International Islamic University Islamabad in the Year 2016.
- 5) Awarded Rs. 60,000/- Research Incentive Award from International Islamic University Islamabad in the Year 2017.
- 6) Awarded Rs. 60,000/- Research Incentive Award from International Islamic University Islamabad in the Year 2018.
- 7) Included in top 2% scientists of the world as per Stanford University USA list in 2021, 2022 and 2023.

<u>Research Profile:</u>

Research Interests:

Mathematics, Fuzzy Sets and Their Generalizations, Soft Sets, Rough Sets, Decision Making, Algebraic Structures.

Total Impact Factor: 721.133 (Published: 684.033, Accepted: 37.100).

Publications	Published	Accepted	Total
Total Publications	300	10	310
Total International Publications	283	10	293
Impact Factor Publications	216	08	224
HEC Recognized (W, X & Y)	246	08	254

Conference Papers	03
Books Contributed	07

Students Supervised	BS	MS	Ph.D.
Degree Completed	02	50	06
Degree Continued	Nil	05	04
Conferences Attended		14	
Conferences Organized		03	

Departmental Duties (Other than Teaching):

- In charge Academic Affairs
- Time Table in charge: 2005-2021
- Member Time Table Committee: 2021-todate
- Member and convener of Examination committee: 2005-2021
- Member and convener of Admission committee: 2006-2021
- Convener of space allocation committee of FBAS: 2017-2021
- Convener of Examination committee of FBAS: 2017-2021
- Convener of Seminar Committee since December: 2019- todate.
- Secretary of Departmental Graduate Research Committee: 2021- todate
- Secretary of Departmental Board of Studies: 2021- todate

Editorial Board Responsiblities:

- 1. Lead guest editor of the special issue "Decision Making Based on Intuitionistic Fuzzy Sets and their Generalizations" in the Journal "Journal of Mathematics" in 2020.
- 2. Guest editor of the special issue "Security Algorithms and Risk Management using Fuzzy Sets" in the Journal "Security and Communication Networks" in 2021.
- 3. Member editorial board: Scientific Reports
- 4. Member editorial board: PLOS ONE
- 5. Member editorial board: Journal of Intelligent and Fuzzy Systems

Book Chapters:

- Qaisar Khan, Tahir Mahmood, Khizar Hayat, Muhammad Arif, Valentina Emilia Balas, and Oana Geman. Application of Single-Valued Neutrosophic Power Maclaurin Symmetric Mean Operators in MADM. In: Balas V., Jain L., Balas M., Shahbazova S. (eds) Soft Computing Applications. SOFA 2018. Advances in Intelligent Systems and Computing, vol 1222. Springer, Cham. (Published).
- 2. **Tahir Mahmood**, Qaisar Khan, Kifayat Ullah, Naeem Jan. Single valued neutrosophic finite state machine and switchboard state machine, New Trends in Neutrosophic Theory and Applications, Volume II, Brussels, Belgium, EU,2018. (**Published**).
- 3. **Tahir Mahmood** and Zeeshan Ali, Schweizer–Sklar Muirhead Mean Aggregation Operators Based on Pythagorean Fuzzy Sets and Their Application in Multi-Criteria Decision-Making, Pythagorean Fuzzy Sets: Theory and applications, Springer, (2021) 235-259, (2021) 235-259, (**Published**).
- 4. **Tahir Mahmood** and Zeeshan Ali, Multi-Granulation Single-Valued Neutrosophic hesitant fuzzy rough sets, DECISION MAKING WITH NEUTROSOPHIC SET: THEORY AND APPLICATIONS, Springer. **(Accepted).**
- 5. Said Broumi, Kifayat Ullah, **Tahir Mahmood**, Mohamed Talea, Assia Bakali, Florentin Smarandache, D. Nagarajan, and M. Lathamaheswari, Trends on Extension and Applications of Neutrosophic Graphs to Robots, Toward Humanoid Robots: The Role of Fuzzy Sets, Springer, 2021, (**Published**).
- 6. Zeeshan Ali, **Tahir Mahmood**, Florentin Smarandache, Three-Way Decisions with Single-Valued Neutrosophic Uncertain Linguistic Decision-Theoretic Rough Sets Based on Generalized Maclaurin Symmetric Mean

Operators, Neutrosophic Operational Research, Springer, (2021) 71-101, (Published).

7. Said Broumi, Kifayat Ullah, Assia Bakali, Mohamed Talea, Prem Kumar Singh, **Tahir Mahmood**, Florentin Smarandache, Ayoub Bahnasse, Santanu Kumar Patro and Angelo de Oliveira, Novel System and Method for Telephone Network Planing based on Neutrosophic Graph, Collected Papers (on Neutrosophic Theory and Applications) Volume VI.

Conference Papers:

- 1. Faisal Mehmood, Khizar Hayat, **Tahir Mahmood** and Muhammad Arif, Cubic Hesitant Fuzzy Heronian Mean Operators and Their Application in Multi Criteria Decision Making, Soft Computing Applications, Proceedings of the 8th International Workshop Soft Computing Applications (SOFA 2018), Vol. II, Springer.
- 2. Kifayat Ullah, **Tahir Mahmood**, Naeem Jan, Some averaging aggregation operators for t-spherical fuzzy sets and their applications in multi-attribute decision making. In Proceedings of the International Conference on Soft Computing & Machine Learning (ICSCML), Wuhan, China, 26–28 April 2019.
- 3. Said Broumi, Mohamed Talea, Assia Bakali, Guennoun Asmae, **Tahir Mahmood**, Florentin Smarandache and Kifayat Ullah, NSPP: A Novel algorithm for neutrosophic shortest path problem , 2020 International Conference on Computer and Information Sciences, October 13-15, Aljouf, Kingdom of Saudi Arabia.

Published Papers:

- 1) Muhammad Shabir and **Tahir Mahmood**, Hemirings characterized by the properties of their fuzzy ideals with thresholds, Quasi s and Related Systems (ISSN: 1561-2848), 18 (2010), 195 212. (HEC Recognized).
- 2) Asghar Khan, Young Bae Jun and **Tahir Mahmood**, Generalized Fuzzy Interior Ideals in Abel Grassmann's Groupoids, Int. J. of Mathematics and Mathematical Sciences, (ISSN: 0161-1712), Volume 2010, Article ID 838392, 14 pages, (HEC Recognized).
- 3) Muhammad Shabir and **Tahir Mahmood**, Characterizations of Hemirings by Interval Valued Fuzzy Ideals, Quasigroups and Related Systems, (ISSN:1561-2848), 19 (2011), 317-329. (**HEC Recognized**).
- Muhammad Shabir and Tahir Mahmood, On Interval Valued (α, β)-Fuzzy Ideals of Hemirings, East Asian Mathematical Journal, (ISSN:1226-6973), 27 (2011), No. 3, pp. 349-372.
- 5) Muhammad Shabir and **Tahir Mahmood**, Characterizations of Hemirings by $(\in, \in \lor q_k)$ -Fuzzy Ideals, Computers and Mathematics with Applications, (ISSN:0898-1221), 61 (2011) 1059-1078. **I. F. 2.670.**
- 6) Muhammad Shabir, Yasir Nawaz and **Tahir Mahmood**, Characterizations of Hemirings by $(\bar{\epsilon}, \bar{\epsilon} \vee \bar{q})$ -Fuzzy Ideals, Neural Computing and Applications, (ISSN:0941-0643), 21 (Suppl 1) (2012) S93–S103. **I. F. 1.168.**

- 7) Muhammad Shabir and **Tahir Mahmood**, Hemirings Characterized by Interval Valued $(\bar{\epsilon}, \bar{\epsilon} \lor \bar{q})$ -Fuzzy k-Ideals, Mathematica Aeterna, (ISSN:1314-3344), 2 (1) (2012) 1 - 19.
- 8) **Tahir Mahmood** and Muhammad Shabir Characterizations of hhemiregular and h-semisimple Hemirings by interval valued fuzzy h-ideals, World Applied Science Journal, (ISSN:1818-4952), 17 (2012) 1821-1827.
- Muhammad Shabir and Tahir Mahmood, Spectrum of (∈,∈Vq)-fuzzy prime h-ideals of a hemiring, World Applied Science Journal, (ISSN:1818-4952), 17 (2012) 1815-1820.
- 10) Muhammad Shabir, Noshin Malik and **Tahir Mahmood**, On Interval Valued Fuzzy h-ideals in Hemirings, East Asian Mathematical Journal,(ISSN:1226-6973), 28 (1) (2012) 49-62.
- 11) Muhammad Shabir, Noshin Malik and **Tahir Mahmood**, Characterizations of hemirings by the properties of their interval valued fuzzy ideals, Annals of Fuzzy Mathematics and Informatics, (ISSN:2093-9310), 3 (2) (2012) 229- 242.
- 12) Muhammad Shabir, Noshin Malik and **Tahir Mahmood**, On Interval Valued Fuzzy ideals in Hemirings, Annals of Fuzzy Mathematics and Informatics, (ISSN:2093-9310), 4(1) (2012) 49-62.
- 13) **Tahir Mahmood**, New Types of Interval Valued Fuzzy h-Ideals of Hemirings, World Applied Science Journal, (ISSN:1818-4952), 18 (2012) 1883-1889.
- 14) **Tahir Mahmood** and Muhammad Shabir Ideals Redefined to Characterize Hemirings, World Applied Science Journal, (ISSN:1818-4952), 18 (2012) 1870-1882.
- 15) **Tahir Mahmood** and Muhammad Aslam, On interval-valued $(\epsilon_{\gamma}, \epsilon_{\gamma} \lor q_{\delta})$ fuzzy k-ideals in hemirings, Neural Computing & Applications, (ISSN:0941-0643), 21 (1)(2012) 231–244. **I. F. 1.168.**
- 16) Muhammad Shabir, **Tahir Mahmood** and Saqib Hussain, Hemirings Characterized by Interval Valued ($\in, \in \lor q$)-Fuzzy k-Ideals, World Applied Sciences Journal, (ISSN:1818-4952) 20(12)(2012) 1678-1684.
- 17) **Tahir Mahmood**, Hemirings Characterized by the properties of their $(\bar{\epsilon}, \bar{\epsilon} \vee \bar{q}_k)$ -fuzzy ideals, Iranian Journal of Science and Technology, (ISSN:1028-6276), 37 (2013) 265-275. **I. F. 0.217.**
- 18) Tahir Mahmood and Muhammad Munir, On Bipolar Fuzzy Subgroups,, World Applied Sciences Journal, (ISSN:1818-4952), 27(12)(2013) 1806-1811.
- 19) **Tahir Mahmood**, Characterizations of h –Hemiregular and h Semisimple Hemirings by Interval Valued $(\bar{e}, \bar{e} \vee \bar{q})$ -Fuzzy h –Ideals, The

Nucleus, (ISSN:0029-5698), 51(1)(2014) 19-27. (HEC Recognized).

- 20) Muhammad Shabir, Yasir Nawaz and **Tahir Mahmood**, Characterizations of Hemirings by $(\in, \in \lor q)$ -Fuzzy Ideals, East Asian Mathematical Journal, (ISSN:1226-6973), 31(2015) 001-018.
- 21) **Tahir Mahmood** and Khizar Hayat, Characterizations of Hemi-Rings by their Bipolar-Valued Fuzzy h-Ideals, Information Sciences Letter, (ISSN:2090-9551), 4(2) (2015) 51-59.
- 22) **Tahir Mahmood** and Usman Tariq, Generalized k-Ideals in Semirings using Soft Intersectional Sets, International Journal of Algebra and Statistics, (ISSN:2314-4548), 4(1) (2015) 20-38.
- 23) Muhammad Irfan Ali, **Tahir Mahmood**, M. Muti ur Rahman and M. Fahim Aslam, On lattice ordered soft sets, Applied Soft Computing, (ISSN:1568-4946) 36 (2015) 499-505 **I. F. 2.857.**
- 24) **Tahir Mahmood** and Asim Ejaz, On Bipolar Valued Fuzzy k-Ideals in Hemirings, The Nucleus, (ISSN:0029-5698), 52 (3) (2015) 115-122. (HEC Recognized).
- 25) Tahir Mahmood, Ayesha Waqas and M. A. Rana, Soft Intersectional Ideals in Ternary Semirings, Science International, (ISSN:1013-5316), 27 (5) 2015, 3929-3934.
- 26) **Tahir Mahmood** and Khizar Hayat, Applications of Soft Intersection Set in B-Algebra via SI- B- Ideals, International Journal of Algebra and Statistics, (ISSN:2314-4548), 4(2) (2015) 57-62.
- 27) **Tahir Mahmood**, Saleem Abdullah and Qaisar Khan, Regular Cubic Language and Regular Cubic Expression, Advances in Fuzzy Sets and Systems, (ISSN:0973-421X), 20(2) (2015) 97-132.
- 28) Saleem Abdullah, Wafa S. Al Shammakh, Tahir Mahmood and Muhammad Shahzad, Fuzzy soft set over a fuzzy topological space, International Journal of Machine Learning and Cybernatics, (ISSN:1868-8071), 7 (2016) 491-499.
 I. F. 1.699.
- 29) Khizar Hayat and Tahir Mahmood, Some Applications of Bipolar Soft Set: Characterizations of Two Isomorphic Hemi-Rings via BSI-h-Ideals, British Journal of Mathematics and Computer Science, (ISSN:2231-0851), 13
 (2) (2016) 1-21.
- 30) **Tahir Mahmood**, Qaisar Khan and Mohsin Ali, Q-Single Valued Neutrosophic Sets, Journal of New Theory, (ISSN:2149-1402), 13 (2016) 10-25.
- 31) **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, (ISSN:2314-4548), 5 (1) (2016) 19-51.

- 32) Khizar Hayat, Bing-Yuan Cao, **Tahir Mahmood** and Kalim Ul-Haq Tariq, Applications of double-framed soft ideals in BE-algebras, New Trends in Mathematical Sciences, (ISSN:2147-5520), 4(2) (2016) 285-295.
- 33) **Tahir Mahmood**, Saleem Abdullah, Muhammad Bilal and Saeed ur Rashid, Multi Criteria Decision Making Based on Bipolar Valued Fuzzy Sets, Annals of Fuzzy Mathematics and Informatics, (ISSN:2093-9310), 11(6)(2016) 1003-1009.
- 34) **Tahir Mahmood** and Qaisar Khan Interval Neutrosophic finite switchboard state machine, Afrika Matematika, (ISSN:1012-9405), 27 (2016) 1361-1376.
- 35) **Tahir Mahmood**, Ayesha Waqas, Muhammad Afzal Rana and Usman Tariq, Generalized Soft Intersectional Ideals in Ternary Semirings, Journal of Advance Research in Mathematics and Mathematical Sciences, (ISSN:2208-2409), 1(4) (2016) 1-9.
- 36) **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, (ISSN:1016-2526), 49 (1) (2017) 31-49 (**HEC Recognized**).
- 37) **Tahir Mahmood**, Jun Ye and Qaisar Khan, Multiple Attribute Decision-Making Method under Hesitant Single Valued Neutrosophic Uncertain Linguistic Environment, Journal of Inequalities and Special Functions, (ISSN:2217-4303), 2 (2017) 1-17.
- 38) **Tahir Mahmood,** Jun Ye and Qaisar Khan, Vector Similarity Measures for Simplified Neutrosophic Hesitant Fuzzy Set and Their Applications, Journal of Inequalities and Special Functions, (ISSN:2217-4303), 7 (4) (2016) 176-194.
- 39) Khizar Hayat, **Tahir Mahmood** and Bing-Yuan Cao, On Bipolar Anti Fuzzy h-Ideals in Hemi-rings, Fuzzy Information and Engineering, (ISSN:1616-8658), 9 (2017) 1-19.
- 40) **Tahir Mahmood**, Saleem Abdullah, Saeed ur Rashid and Muhammad Bilal, Multicriteria Decision Making Based on Cubic sets, Journal of New Theory, (ISSN:2149-1402), 16 (2017) 1-9.
- 41) Peide Liu, Tahir Mahmood and Qaisar Khan, Multi-Attribute Decision-Making Based on Prioritized Aggregation Operator under Hesitant Intuitionistic Fuzzy Linguistic Environment, Symmetry, (ISSN:2073-8994), 9(11) (2017) 270. I. F. 1.457.
- 42) Saqib Hussain, Janusz Sokol, Umer Farooq, Maslina Darus and **Tahir Mahmood**, APPLICATIONS OF CONVOLUTION AND SUBORDINATION TO CERTAIN p-VALENT FUNCTIONS, Bulletin of the Iranian Mathematical Society, (ISSN: 1018-6301), 43 (6) (2017) 1739-1749. **I. F. 0.287.**
- 43) Murad Ullah, **Tahir Mahmood**, Muhammad Bilal Khan, Kifayat Ullah, On Twisted Soft Ideal of Soft Ordered Semigroups, Journal of Information

Communication Technologies and Robotic Applications, (ISSN:2523-5729), 8(2) (2017) 74-85. (HEC Recognized).

- 44) 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, (ISSN:2518-4571), 36(2)(2017) 63-72. (HEC Recognized).
- 45) Muhammad Irfan Ali, **Tahir Mahmood** and Azmat Hussain, A study of generalized roughness in $(\in, \in \lor q_k)$ -fuzzy filters of ordered semigroups, Journal of Taibah University for Science, (ISSN:1658-3655), 12(2)(2018) 163-172. **I. F. 1.640.**
- 46) 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, (ISSN:1562-2479), 20(3) (2018) 970-985, **I. F. 3.085**.
- 47) **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, (ISSN:2364-4974), 3 (2018) 153-168.
- 48) Kifayat Ullah, Tahir Mahmood, Naeem Jan, Similarity Measures for T-Spherical Fuzzy Sets with Applications in Pattern Recognition, Symmetry, (ISSN:2073-8994), 10 (2018) 193, I. F. 2.143.
- 49) **Tahir Mahmood,** Muhammad Irfan Ali, Azmat Hussain, Generalized roughness in fuzzy filters and fuzzy ideals with thresholds in ordered semigroups, Computational & Applied Mathematics, (ISSN:2238-3603), 37(2018) 5013-5033, **I. F. 1.260.**
- 50) Qaisar Khan, Peide Liu and **Tahir Mahmood**, Some Generalized Dice Measures for Double-Valued Neutrosophic Sets and Their Applications, mathematics, (ISSN 2227-7390) 6 (2018) 121. **I. F. 1.105.**
- 51) **Tahir Mahmood,** Muhammad Irfan Ali, Muhammad Aamir Malik, Waseem Ahmad, On Lattice Ordered Intuitionistic Fuzzy Soft Sets, International Journal of Algebra and Statistics, (ISSN:2314-4548), 7 (2018) 46-61.
- 52) Qaisar Khan, Nasruddin Hassan and **Tahir Mahmood**, Neutrosophic Cubic Power Muirhead Mean Operators with Uncertain Data for Multi-Attribute Decision Making, Symmetry, (ISSN:2073-8994), 10 (2018) 444 (24 pages), **I. F. 2.143.**
- 53) 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, (ISSN:1562-2479), 20(7)(2018) 2337-2353 I. F. 3.085.

- 54) 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, (ISSN:2073-8994), 10(2018) 459 (31 pages), **I. F. 2.143.**
- 55) **Tahir Mahmood**, Zia Ur Rehman and Aslihan Sezgin, Lattice Ordered Soft Near Rings, Korean Journal of Mathematics, (ISSN:1976-8605), 26(3) (2018) 503-517.
- 56) 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, (ISSN:0029-5698), 55 (2) (2018) 66-73. (**HEC Recognized**).
- 57) 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, The Nucleus, (ISSN:0029-5698), 55(2) (2018) 93-101. (HEC Recognized).
- 58) Harish Garg , Muhammad Munir, Kifayat Ullah, **Tahir Mahmood**, Naeem Jan, Algorithm for T-Spherical Fuzzy Multi-Attribute Decision Making Based on Improved Interactive Aggregation Operators, Symmetry, (ISSN:2073-8994), 10(2018) 670 (24 pages) **I. F. 2.143**.
- 59) Muhammad Iftikhar and **Tahir Mahmood**, Some results on lattice ordered double framed soft semirings, International Journal of Algebra and Statistics, (ISSN:2314-4548), 7(2018)123-140.
- 60) Shahzaib Ashraf, Saleem Abdullah and **Tahir Mahmood**, GRA method based on spherical linguistic fuzzy Choquet integral environment and its application in multi-attribute decision making problems, Mathematical Sciences, (ISSN:2008-1359), 12 (2018) 263-275.
- 61) **Tahir Mahmood** and Naveed Ahmad Shah, Lattice Ordered Fuzzy Soft Groups, Honam Mathematical Journal, (ISSN:2288-6176), 40 (2018) 457-486.
- 62) Kifayat Ullah, **Tahir Mahmood**, Naeem Jan and Zeeshan Ali, A Note on Geometric Aggregation Operators in Spherical Fuzzy Environment and its Application in Multi-Attribute Decision Making, Journal of Engineering and Applied Sciences, (ISSN:1023-862X) 37(2) (2018) 75-86, (**HEC Recognized**).
- 63) Kifayat Ullah, Zeeshan Ali, Naeem Jan, **Tahir Mahmood** and Shahid Maqsood, Multi-Attribute Decision Making Based on Averaging Aggregation Operators for Picture Hesitant Fuzzy Sets, Technical Journal UET Taxila, (ISSN: 1813-1786), 23 (4) (2018) 84-95, **(HEC Recognized)**.
- 64) Muhammad Bilal Khan, Vildan Cetkin, **Tahir Mahmood**, Naeem Jan, Kifayat Ullah and Halis Aygun Near, Rings in the View of double Framed Soft Fuzzy Sets, Sigma Journal of Engineering and Natural Sciences, (ISSN:1304-7191), 37(1) (2019) 175-186.
- 65) Naeem Jan, Lemnaouar Zedam, **Tahir Mahmood**, Kifiyat Ullah, Zeeshan Ali, Multiple Attribute Decision Making Method Under Linguistic Cubic

Information, Journal of Intelligent & Fuzzy Systems, (ISSN:1064-1246, 0868-4952), 36 (2019) 253-269. **I. F. 1.851.**

- 66) Peide Liu, Qaisar Khan and **Tahir Mahmood**, Application of Interval Neutrosophic Power Hamy Mean Operators in MAGDM, INFORMATICA, (ISSN:1822-8844), 30(2) (2019) 293-325, **I. F. 3.312**.
- 67) Shouzhen Zeng, Azmat Hussain, **Tahir Mahmood**, Muhammad Irfan Ali, Shahzaib Ashraf and Muhammad Munir, Covering based spherical fuzzy rough set model hybrid with TOPSIS for multi-attribute decision making, Symmetry, (ISSN:2073-8994), 11(2019) 547 (19 Pages), **I. F. 2.645.**
- 68) Bijan Davvaz, Naeem Jan, **Tahir Mahmood** and Kifayat Ullah, Intuitionistic Fuzzy Graphs of nth Type with Applications, Journal of Intelligent & Fuzzy Systems, (ISSN:1064-1246), 36(4)(2019) 3923-3932, I. F. 1.851.
- 69) Naeem Jan, Zeeshan Ali, **Tahir Mahmood** and Kifayat Ullah, Some Generalized Distance and Similarity Measures for Picture Hesitant Fuzzy Sets and Their Applications in Building Material Recognition and Multi-Attribute Decision Making, Punjab University Journal of Mathematics, (ISSN:1016-2526), 51(7) (2019) 51-70. (**HEC Recognized**).
- 70) Naeem Jan, Kifayat Ullah, **Tahir Mahmood**, Harish Garg, Bijan Davvaz, Arsham Borumand Saeid and Said Broumi, Some Root Level Modifications in Interval Valued Fuzzy Graphs and Their Generalizations Including Neutrosophic Graphs, mathematics, (ISSN:2227-7390), 7(2019)72. I. F. 1.747.
- Muhammad Naeem, Saqib Hussain, Tahir Mahmood, Shahid Khan and Maslina Darus, A New Subclass of Analytic Functions Defined by Using Salagean q-Differential Operator, mathematics, (ISSN:2227-7390), 7 (2019) 458.
 I. F. 1.747.
- 72) 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, (ISSN:1678-7544), 50 (2019) 373-397, I. F. 0.602.
- 73) Azmat Hussain, Muhammad Irfan Ali and Tahir Mahmood, Generalized Roughness of (∈,∈Vq)--Fuzzy Ideals in Ordered Semigroups, Journal of New Theory, (ISSN:2149-1402), 26 (2019) 32-53.
- 74) Shahzaib Ashraf, Saleem Abdullah, **Tahir Mahmood**, Fazal Ghani and Tariq Mahmood, Spherical Fuzzy Sets and Their Applications in Multi-Attribute Decision Making Problems, Journal of Intelligent & Fuzzy Systems, (ISSN:1064-1246), 36 (2019) 2829–2844, **I. F. 1.851.**
- 75) Muhammad Rafiq, Shahzaib Ashraf, Saleem Abdullah, **Tahir Mahmood** and Shakoor Muhammad, The Cosine Similarity Measures of Spherical Fuzzy Sets and Their Applications in Decision Making, Journal of Intelligent & Fuzzy Systems, (ISSN:1064-1246), 36(2019) 6059–6073, **I. F. 1.851.**

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Accepted Papers:

- Naeem Jan, Lemnaouar Zedam, Tahir Mahmood, Kifiyat Ullah, Bijan Davvaz and Zeeshan Ali, An Improved Clustering Algorithm for Picture Fuzzy Graphs and its Applications in Human Decision Making, International Journal of Fuzzy Systems, (ISSN:1562-2479) (WoS Ranking: Q2, I.F.: 4.3, HJRS Ranking: W)
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- 3) Tahir Mahmood, Zeeshan Ali and Ronnason Chinram, Multi-Attribute Decision-Making Problem Based on Complex q-Rung Orthopair Fuzzy 2-Tuple Linguistic Muirhead Mean Aggregation Operators, Journal of Intelligent & Fuzzy Systems, (ISSN:1064-1246), (WoS Ranking: Q2, I.F: 2.0, HJRS Ranking: X)
- 4) Xiaoming Wu, Zeeshan Ali, **Tahir Mahmood** and Peide Liu, Power Aggregation operators Based on Yager t-norm and t-conorm for Complex q-

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- 5) Tahir Mahmood, Muhammad Rizwan Azami, Ubaid ur Rehman, Dragan Pamucar and Zeeshan Ali, The Generalized Similarity Measures Based on Cubic Complex Hesitant Fuzzy Sets and Their Applications, Applied and Computational Mathematics (ISSN: 1683-3511) (WoS Ranking: Q1, I.F.: 10, HJRS Ranking: W)
- 6) Peide Liu, Zeeshan Ali, Tahir Mahmood and Yushui Geng, Prioritized Aggregation Operators for Complex Intuitionistic Fuzzy Sets Based on Aczel-Alsina T-norm and T-conorm and Their Applications in Decision-Making, International Journal of Fuzzy Systems, (ISSN:1562-2479) (WoS Ranking: Q2, I.F.: 4.3, HJRS Ranking: W)
- 7) Tahir Mahmood, Ubaid ur Rehman, Xindong Peng and Zeeshan Ali, Evaluation of mental disorder with prioritization of its type by utilizing the bipolar complex fuzzy decision-making approach based on Schweizer-Sklar prioritized aggregation operators, PeerJ Computer Science, (ISSN: 2376-5992), (WoS Ranking: Q2, I.F.: 3.8, HJRS Ranking: W)
- 8) Zeeshan Ali and **Tahir Mahmood**, Bonferroni Mean Operators Based on Interval-valued Picture Hesitant Fuzzy Information and Their Application in Decision-Making Problems, Journal of Computational and Cognitive Engineering, (ISSN: 2810-9503),
- 9) Peide Liu, Zaifu Sun, Zeeshan Ali and Tahir Mahmood, Complex Pythagorean Hesitant Fuzzy Aggregation Operators Based on Aczel-Alsina tnorm and t-conorm and Their Applications in Decision-Making, International Journal of Fuzzy Systems, (ISSN:1562-2479) (WoS Ranking: Q2, I.F.: 4.3, HJRS Ranking: W)
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Refereeing and Reviewing

- 1) IEEE Transactions on Fuzzy Systems
- 2) Information Sciences
- 3) Computers and Mathematics with Applications
- 4) Neural Computing and Applications
- 5) International Journal of Intelligent Systems
- 6) Computational & Applied Mathematics
- 7) Journal of Intelligent & Fuzzy Systems
- 8) Journal of Intelligent System
- 9) IEEE ACCESS
- 10) Heliyon
- 11) Journal of Mathematics (Hindawi)
- 12) Journal of Applied Mathematics and Computing
- 13) Complexity (Hindawi)

- 14) Mathematical Problems in Engineering
- 15) AIMS Mathematics
- 16) Journal of Functions Spaces
- 17) World Applied Sciences Journal
- 18) International Journal of Algebra and Statistics
- 19) The Nucleus
- 20) African Journal of Mathematics and Computer Science Research
- 21) Cogent Mathematics
- 22) Springer Plus
- 23) TWMS Journal of Applied and Engineering Mathematics
- 24) Asian Journal of Mathematics and Computer Research
- 25) Journal of Statistics and Mathematical Sciences
- 26) International Journal of System Sciences
- 27) Complex & Intelligent Systems
- 28) Annals of Fuzzy Mathematics and Informatics
- 29) Songklanakarin Journal of Science and Technology
- 30) Technical Journal, UET Taxila.
- 31) CAAI Transactions on Intelligence Technology

Thesis Supervision of Ph. D. Students:

Sr.	Name of Student	Title of Thesis	Status
1	Qaisar Khan	Generalizations of Neutrosophic Sets with	Completed in
		Applications in Decision Making	March 2019
2	Kifayat Ullah	Generalizations of Intuitionistic Fuzzy Set	Completed in
		And their Comparative Study	July 2020
3	Naeem Jan	Generalizations of Intuitionistic Fuzzy Set	Completed in
		And Their Applications in Graph Theory	July2020
4	Muhammad Munir	Some Generalizations of Picture Fuzzy Set	Completed in
		and Their Applications	December 2020
5	Azmat Hussain	Some Contributions to Orthopair Fuzzy	Completed in
		Sets and Their Applications	December 2020
6	Muhammad Naeem	Analysis and applications of Convolution	Completed in
		And Subordination in Geometric Function	December 2020
		Theory	
7	Zeeshan Ali	Analysis and Applications of Complex	Completed in
		Fuzzy Sets and Their Generalizations	July2023
8	Ubaid ur Rehman	Some Contributions to Complex Fuzzy Set	In progress
		and Their Applications	
9	Jabbar Ahmmad	Analysis and Applications of Picture Fuzzy	In progress
		Soft Sets and Their Generalizations	
10	Abdul Jaleel	Aggregation Operators and Similarity	In progress
		Measures in the Framework of Bipolar	
		Complex Fuzzy Soft sets	
11	Hafiz Muhammad	Title not yet finalized	In progress
	Waqas		
12	Ahmad Idrees	Title not yet finalized	In progress
13	Azam	Title not yet finalized	In progress
14	Muhammad Iftikhar	Title not yet finalized	In progress

Thesis Supervision of MS Students:

Sr.	Name of Student	Title of Thesis	Year
1	Qaisar Khan	Cubic Finite Automata and Cubic Language	
2	Muhammad Muti Ur Rehman	Study of Soft Sets with Ordered Set of Parameters	
3	Asim Ejaz	Bi-Polar Valued Fuzzy k-Ideals of Hemirings	2014
4	Muhammad Fahim	Study of fuzzy soft sets with some order on	2014
	Aslam	set of parameters	
5	Khizar Hayat	Bipolar valued fuzzy h-ideals in hemirings	2015
6	Muhammad Naeem	Interval valued fuzzy ideals in ternary semirings	2015
7	Usman Tariq	Ideal Theory in Semiring Based on Soft Sets	2015
8	Muhammad Bilal	Decision Making Based on Bipolar Valued	2015
		Fuzzy Sets	
9	Muhammad Saeed ur Rashid	Decision Making Based on Cubic Sets	2015
10	Muhammad Munir	On Bipolar Valued Fuzzy Ideals in Ternary	2015
	A 1 4	Semirings	0015
11	Ayesha Anum	Soft Intersectional Ideals in Ternary Semirings	2015
12	Azhar Rauf Khan	A Study of Soft Matrices	2016
13	Mohsin Ali Khan	Some Extensions of Q-Fuzzy Soft Sets	2016
14	Asim Zamir	Characterizations of Ternary Semirings by their Soft Intersectional Ideals	2016
15	Kifayat Ullah	Decision Making Based on Bipolar Valued	2016
		Hesitant Fuzzy Sets	
16	Naeem Jan	On Lattice Ordered Soft Groups	2016
17	Muhammad	Some Contribution in Lattice Ordered Soft	2016
	Mubashar	Semigroups	
1.0	Rafique Abbasi		0.0.1.5
18	Faisal Mehmood	Decision Making Based on Cubic Hesitant Fuzzy	2016
10	01 1 1 1 1 1	Sets	0017
19	Shanzaib Ashrai	Some Contribution in Generalization of Fuzzy Sets	2017
20	Naveed Anmed	Some Contribution in Lattice Ordered Fuzzy	2017
01		Qaft Qata	
21	Shah Zia Un Dalaman	Soft Sets	0017
00	Shah Zia Ur Rehman	Soft Sets On Lattice Ordered Soft Near Rings	2017
22	Shah Zia Ur Rehman Muhammad Aamir Malik	Soft SetsOn Lattice Ordered Soft Near RingsOn Lattice Ordered Intuitionistic Fuzzy SoftSets	2017 2017
22 23	Shah Zia Ur Rehman Muhammad Aamir Malik Zulekha Parveen	Soft SetsOn Lattice Ordered Soft Near RingsOn Lattice Ordered Intuitionistic Fuzzy SoftSetsNormal and Non-Normal Pairs of Coxeter Groups	2017 2017 2017
22 23 24	Shah Zia Ur Rehman Muhammad Aamir Malik Zulekha Parveen Abdul Jaleel	Soft SetsOn Lattice Ordered Soft Near RingsOn Lattice Ordered Intuitionistic Fuzzy SoftSetsNormal and Non-Normal Pairs of Coxeter GroupsRoughness of Soft Ideals of Rings	2017 2017 2017 2017 2018
22 23 24 25	Shah Zia Ur Rehman Muhammad Aamir Malik Zulekha Parveen Abdul Jaleel Arsalan Ahmed	Soft Sets On Lattice Ordered Soft Near Rings On Lattice Ordered Intuitionistic Fuzzy Soft Sets Normal and Non-Normal Pairs of Coxeter Groups Roughness of Soft Ideals of Rings Roughness of Soft Ideals of Ordered Semigroups	2017 2017 2017 2018 2018
22 23 24 25 26	Shah Zia Ur Rehman Muhammad Aamir Malik Zulekha Parveen Abdul Jaleel Arsalan Ahmed Muhammad Bilal	Soft SetsOn Lattice Ordered Soft Near RingsOn Lattice Ordered Intuitionistic Fuzzy SoftSetsNormal and Non-Normal Pairs of Coxeter GroupsRoughness of Soft Ideals of RingsRoughness of Soft Ideals of Ordered SemigroupsSome Contributions in Soft Semigroups	2017 2017 2017 2018 2018 2018
22 23 24 25 26	Shah Zia Ur Rehman Muhammad Aamir Malik Zulekha Parveen Abdul Jaleel Arsalan Ahmed Muhammad Bilal Khan	Soft SetsOn Lattice Ordered Soft Near RingsOn Lattice Ordered Intuitionistic Fuzzy SoftSetsNormal and Non-Normal Pairs of Coxeter GroupsRoughness of Soft Ideals of RingsRoughness of Soft Ideals of Ordered SemigroupsSome Contributions in Soft Semigroups	2017 2017 2017 2018 2018 2018
22 23 24 25 26 27	Shah Zia Ur Rehman Muhammad Aamir Malik Zulekha Parveen Abdul Jaleel Arsalan Ahmed Muhammad Bilal Khan Mohsin Khan	Soft SetsOn Lattice Ordered Soft Near RingsOn Lattice Ordered Intuitionistic Fuzzy SoftSetsNormal and Non-Normal Pairs of Coxeter GroupsRoughness of Soft Ideals of RingsRoughness of Soft Ideals of Ordered SemigroupsSome Contributions in Soft SemigroupsSome Results in Lattice Ordered Fuzzy Soft Near	2017 2017 2017 2018 2018 2018 2018
22 23 24 25 26 27	Shah Zia Ur Rehman Muhammad Aamir Malik Zulekha Parveen Abdul Jaleel Arsalan Ahmed Muhammad Bilal Khan Mohsin Khan	Soft SetsOn Lattice Ordered Soft Near RingsOn Lattice Ordered Intuitionistic Fuzzy SoftSetsNormal and Non-Normal Pairs of Coxeter GroupsRoughness of Soft Ideals of RingsRoughness of Soft Ideals of Ordered SemigroupsSome Contributions in Soft SemigroupsSome Results in Lattice Ordered Fuzzy Soft NearRings	2017 2017 2017 2018 2018 2018 2018
22 23 24 25 26 27 28	Shah Zia Ur Rehman Muhammad Aamir Malik Zulekha Parveen Abdul Jaleel Arsalan Ahmed Muhammad Bilal Khan Mohsin Khan Chaudhry Sami	Soft SetsOn Lattice Ordered Soft Near RingsOn Lattice Ordered Intuitionistic Fuzzy SoftSetsNormal and Non-Normal Pairs of Coxeter GroupsRoughness of Soft Ideals of RingsRoughness of Soft Ideals of Ordered SemigroupsSome Contributions in Soft SemigroupsSome Results in Lattice Ordered Fuzzy Soft NearRingsOn Lattice Ordered Soft Vector Spaces	2017 2017 2017 2018 2018 2018 2018 2018 2018
22 23 24 25 26 27 28	Shah Zia Ur Rehman Muhammad Aamir Malik Zulekha Parveen Abdul Jaleel Arsalan Ahmed Muhammad Bilal Khan Mohsin Khan Chaudhry Sami Ullah Khan	Soft Sets On Lattice Ordered Soft Near Rings On Lattice Ordered Intuitionistic Fuzzy Soft Sets Normal and Non-Normal Pairs of Coxeter Groups Roughness of Soft Ideals of Rings Roughness of Soft Ideals of Ordered Semigroups Some Contributions in Soft Semigroups Some Results in Lattice Ordered Fuzzy Soft Near Rings On Lattice Ordered Soft Vector Spaces	2017 2017 2017 2018 2018 2018 2018 2018 2018
22 23 24 25 26 27 28 29	Shah Zia Ur Rehman Muhammad Aamir Malik Zulekha Parveen Abdul Jaleel Arsalan Ahmed Muhammad Bilal Khan Mohsin Khan Chaudhry Sami Ullah Khan Umar Ashfaq	Soft SetsOn Lattice Ordered Soft Near RingsOn Lattice Ordered Intuitionistic Fuzzy SoftSetsNormal and Non-Normal Pairs of Coxeter GroupsRoughness of Soft Ideals of RingsRoughness of Soft Ideals of Ordered SemigroupsSome Contributions in Soft SemigroupsSome Results in Lattice Ordered Fuzzy Soft NearRingsOn Lattice Ordered Soft Vector SpacesA Study of Rough Soft Groups	2017 2017 2017 2018 2018 2018 2018 2018 2018 2018

	Nadeem Qureshi		
31	Ajllal Ahmad	A Study of Neutrosophic Soft Semigroups with	2018
		Ordered Set of Parameters	
32	Zeeshan Ali	A Study of Picture Fuzzy Sets	2018
33	Muhammad	A Study of Double Framed Soft Semirings	2018
	Iftikhar		
34	Muhammad Umer	On Lattice Ordered Soft Expert Sets	2019
35	Haider Faizan	Application of Intuitionistic Fuzzy Values in	2019
		Multicriteria Decision Making	
36	Imran Mahmood	A Study of Intuitionistic Fuzzy Sets in Decision	2019
		Making Problems	
37	Jasim Tariq	A Study of Double Framed Soft Rings with	2019
		Ordered Set of Parameters	
38	Muhammad Saad	A Study of Single Valued Neutrosophic Hesitant	2019
		Fuzzy Graphs	
39	Shahzaib Shahbaz	Roughness of (α', β') -Fuzzy Filters in	2019
		Ordered Semigroups	
40	Iftekhar Ahmad	A Study of Picture Fuzzy Sets and their	2019
		Applications	
41	Zeeshan Ahmad	Similarity Measures of Picture Hesitant Fuzzy	2019
		Sets	
42	Muhammad Ilyas	Analysis and Applications of Similarity Measures	2020
		for Spherical Fuzzy Sets	
43	Jabbar Ahmmad	Some Aggregation Operators for Intuitionistic	2020
	TTT '' 1 A 1'	Fuzzy and Their Generalizations	2020
44	Wajid Ali	Aggregation Operators and Similarity Measures	2020
		for Intuitionistic Hesitant Fuzzy Sets	0000
45	Muhammad Ahsen	Some Contributions in Picture Hesitant Fuzzy	2020
16	Liberd un Debraan	A Study of Complex Hesitent Fugar Sets	0000
40	Mudaaain Ali Khan	A Study of Complex Hesitant Fuzzy Sets	2020
47	Mudassir Ali Khali	A Study of Aggregation Operators for Spherical	2021
18	Hofiz Muhammad	Some Contribution in Dicture Fuzzy Sets and	2021
+0	Wagas	Their Generalizations	2021
40	Muhammad Saad	A Study of Picture Fuzzy sets and Their	2021
פד	Warraich	Generalizations	2021
50	Muhammad Rizwan	Some Contributions to Hesitant Fuzzy Sets and	2021
	Azmi	Their Generalizations	2021
51	Izatmand	A Study of Aggregation Operators in Linear	2022
		Diophantine Fuzzy Sets	
52	Hamza Iftikhar	Aggregation Operators for Complex Fuzzy Sets	2022
		and Their Generalizations	
53	Hafiz Muhammad	Aggregation Operators for Picture Fuzzy Sets and	2022
	Tahir Hafeez	Their Generalizations	
54	Kashif Hussain	A Study of Bipolar Soft Sets and Their	2022
		Generalizations	
55	Abdul Mateen	Some Contributions in Bipolar Complex Fuzzy	2023
		Sets	
56	Azam	A Study of Aggregation Operators in the Environmer	2023
		of Bipolar Complex Fuzzy Sets	

57	Zamran Ali	Some Contributions in Bipolar Complex Fuzzy Sets	2023
		and Their Applications	
58	Muhammad	A Study of Similarity Measures in Bipolar Complex	2023
	Nusrallah	Fuzzy Sets	
59	Muhammad Asif	Some Contributions in semigroups in the	In
		Framework of Bipolar Soft sets	Prog.
60	Raja Zohaib Hayat	Title yet not approved	In
			Prog.
61	Muhammad Hamza	Title yet not approved	In
	Farooq		Prog.
62	Muhammad Rehan	Title yet not approved	In
			Prog.

Project Supervision of BS Students:

Sr.	Name of Student	Title of Project	Year
1	Muhammad Munir	On Bipolar Fuzzy Subgroups	2013
2	Abdus Subhan	On Soft Topological Spaces	2013

Seminars Delivered:

- 1) Department of Mathematics, Quaid-i-Azam University Islamabad Seminar Series, January 12, 2010.
- 2) Department of Mathematics, Quaid-i-Azam University Islamabad Seminar Series, April 14, 2010.

CONFERERENCES ATTENDED

- 1) 5th International Pure Mathematics Conference 2004
- 2) 6th International Pure Mathematics Conference 2005
- 3) 8th International Pure Mathematics Conference 2007
- 4) 9th International Pure Mathematics Conference 2008
- 5) 10th International Pure Mathematics Conference 2009
- 6) 11th International Pure Mathematics Conference 2010
- 7) 12th International Pure Mathematics Conference 2011
- 8) All Pakistan Mathematical Conference 2011
- 9) Recent Trends in Mathematical Sciences-II, 2019
- 10) Recent Trends in Mathematical Sciences-III, 2020
- 11) Math Unit First Symposium, Dhofar University Oman, 2021
- 12) International Conference on Classical and Constructive Nonassociative Algebraic Structures: Foundations and Applications – CaCNAS:FA 2021, Serbia.
- 13) 21st International Pure Mathematics Conference 2021
- 14) 22nd International Pure Mathematics Conference 2022
- 15) 23rd International Pure Mathematics Conference 2023

CONFERERENCES ORGANIZED

- 1) Two Days Conference on Mathematical Sciences (IIUI) 2013
- 2) Two Days Conference on Mathematical Sciences (IIUI) 2017
- 3) 22nd International Pure Mathematics Conference 2022

Teaching and Research Experience

_Lecturer (Mathematics)	Pakistan Advanced College of Excellence (PACE), Rawalpindi Cantt.	Aug 03, 1998 - Sep 25, 2000	Taught Maths of F.Sc. and of BS(Calculus, Discrete Mathematics, Numerical Analysis)	
Lecturer (Mathematics)	Federal Directorate of Education, Islamabad	Sep 26, 2000 – Oct 01, 2005	Mathematics	
Lecturer (Mathematics)	International Islamic University, Islamabad	Oct 03, 2005 – Jun 25, 2007	Teaching Maths of BS and M.Sc. (Calculus, Real Analysis, Group Theory, Linear Algebra, Topology, Numerical Analysis)	
Assistant Professor (Mathematics)	International Islamic University, Islamabad	Jun 26, 2007 – Jun 09, 2022	Teaching Maths of BS and M.Sc. (Calculus, Real Analysis, Group Theory, Linear Algebra, Topology, Numerical Analysis, Rings and Fields) and MS, Ph.D. (Fuzzy Algebra, Theory of Semirings, Near Rings, Topics in Algebra)	
Associate Professor (Mathematics)	International Islamic University, Islamabad	Jun 10, 2022 – todate	As Above	
Total Teaching Experience:25+ Years (Continued)				
Post Gradu	Post Graduate & University Teaching Exp.: 18+ Years (Continued)			
<u>KEFEKENUES</u>				

Dr. Muhammad Shabir Professor, Department of Mathematics,	Dr. Nasruddin Hassan		
	Professor,		
	School of Mathematical Sciences, Faculty of		
	Science and Technology, Universiti Kebangsaan		
Quaid-i-Azam University, Islamabad,	Malaysia UKM Bangi Selongar DF 43600		
Pakistan	Malaysia, OKM Dangi, Sciongar DE 43000,		
	Malaysia		

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