



**Dr. SALEEM  
ABDULLAH**  
*Assistant Professor*

Address: Department of Mathematics, Hazara  
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## OBJECTIVE

To work for an esteemed organization, where I can use my sound knowledge, skills and professional expertise, competence and combined the willingness to work hard with an opportunity to grow my knowledge, skills and expertise more towards greater achievement of organizational objectives.

## PERSONAL INFORMATION

Father's Name: SAFDAR ALI

Religion: ISLAM

Marital status: SINGLE

Domicile: SAWABI, KPK

Date of Birth: 15/04/1986

Nationality: Pakistan

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Permanent Address: VILLAGE YAQUBI TEHSIL LAHOR  
DISTRICT SAWABI PROVINCE KPK, PAKISTAN

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## EDUCATION

### PhD, Mathematics: 2011-2015

University: Quaid-i-Azam University, Islamabad Pakistan.

Title of my PhD Thesis: A New Approach to  $\Gamma$ -semihypergroups through Applications of Intuitionistic Fuzzy sets.

GPA: 4.0/5.0

Seminar(s): Delivered

Studies focused on Pure Mathematics and Applied Mathematics. Particular, my PhD study is focusing on algebraic hyperstructures and Applications of intuitionistic fuzzy set to hyperstructures.

### M.Phil Mathematics: 2009-2011

University: Quaid-i-Azam University, Islamabad, Pakistan

Title of M.Phil Thesis: Intuitionistic Fuzzy  $\Gamma$ -Ideals of  $\Gamma$ -LA-semigroups

GPA: 4.4/5.0

Specialized in Fuzzy Algebra, my Thesis title was "Intuitionistic Fuzzy  $\Gamma$ -ideals in  $\Gamma$ -LA-semigroups". I had published eight research papers during my M.Phil research. I passed eight courses during M.Phil course work majority of which Algebra and Functional Analysis. It helped me to make my foundation in Pure Mathematics.

### M.Sc Mathematics: 2006-2008

University: Hazara University, Mansehra KPK, Pakistan

GPA: 3.67/4.0

It is a dream of every student to get admission in University's master program after doing B.Sc from college in Pakistan. Fortunately I got it and I passed 20 courses of Mathematics which include two courses of Statistics. I passed both courses of Pure Mathematics and Applied Mathematics in my M.Sc.

**B,Sc Mathematics & Physics:                    2004-2006**

**University: University of Peshawar, Peshawar, Pakistan**

**College: Government Post Graduate College Mardan, Pakistan**

**Percentage: 60% (332/550)**

**It was wonderful experience to complete my BSc Degree in Mathematics & Physics from Government Post Graduate College, Mardan. I feel myself lucky to be taught by competent and hardworking teacher who created my interest in Mathematics by their teaching methodology and their love with the subject.**

**MAJOR COURSES**

<b>B. Sc Courses</b>	
1. Group Theory and Number Theory	4. Mathematical Method
2. Basic Topology	5. Calculus and Analytical Geometry
3. Classical Mechanics	6. Physics
	7. Numerical Analysis

<b>M. Sc Courses</b>	
<b>Pure Mathematics Courses</b>	<b>Applied Mathematics Courses</b>
1. Group Theory	10. Dynamics
2. Topology	11. Measure and Integrations
3. Functional Analysis	12. Mathematical Statistics
4. Linear Algebra	13. Partial Differential Equations
5. Advanced Calculus	14. Differential Geometry
6. Real Analysis	15. Ordinary Differential Equations
7. Set Theory and Mathematical Logic	16. Integral Equations
8. Complex Analysis	17. Mathematical Technique
9. Numerical Analysis	18. Numerical Methods

<b>M. Phil &amp; PhD Courses</b>	
19. Theory of Group actions	28. Theory of LA-semigroups
20. Algebraic Coding Theory	29. Theory of Semirings
21. Nilpotent and Soluble Groups	30. Theory of Group Graphs
22. Theory of Semigroups	31. Algebraic Number Theory
23. Banach Algebras	32. Information Theory
24. Spectral Theory in Hilbert Spaces	33. Linear Modules
25. Fuzzy Algebra	34. Near Rings
26. Mathematical Modelling	35. Fuzzy Logic
27. Advance Differential Equations	36. Fuzzy Decision Making
	37. Advanced Integral Equation

## EXPERIENCE

Name of Organization	Designation	Job Profile	Dates	
			From	To
Department of Mathematics, Hazara University, Mansehra	Assistant Professor	Teaching and Research	May 2015	Up to Date
Department of Computer Science, ZABIAST, Islamabad	Visiting Lecturer	Teaching	September 2014	January 2015
International Islamic University, Islamabad	Visiting Lecturer	Teaching	January 2011	Jun 2015
FAST-NUCES, Islamabad	Adjunct Lecturer	Teaching & Research	Sep, 2012	Dec, 2013
Govt. Degree College Mardan	Lecturer (Contract)	Teaching	Sep 2008	April 2009

### Experiences as Thought Subjects

1. Linear Algebra	5. Ordinary Differential Equations
2. Complex Analysis	6. Multivariable Calculus
3. Number Theory	7. Calculus-I & II
4. Numerical Methods	8. Calculus and Analytical Geometry

## COMPUTER SKILL

MS office & Window Installation 98, ME, 2000, XP, Window 7  
GAP software, Scientific Work Place and Latex, Mathematica, Matlab.

## LANGUAGE

English, Urdu, Pashto

## RESEARCH

### Research Interest

In 1965, L.A. Zadeh introduced the concept of fuzzy set. After this concept many researchers/Mathematicians engaged to fuzzy set theory. A. Rosenfeld was studied fuzzy subgroups of a group. After the concept of fuzzy subgroups, many researcher/Mathematicians applied fuzzy theory to algebra. In 1986, K.T. Atanassov introduced the notion of an intuitionistic fuzzy set, which is a generalization of Zadeh fuzzy set. I am interesting in fuzzy algebra and Algebra (semigroup, semihypergroup, LA-semigroups,  $\Gamma$ -LA-semigroup, LA-semihypergroup, soft topology etc). I am also interested in Soft sets, Rough set, Fuzzy Differential Equations, Fuzzy Integral Equations and Fuzzy soft set. Fuzzy Automaton, Fuzzy Languages, Interval valued fuzzy set, Aggregation Operators, Fuzzy Aggregation Operator and Application Decision Support Systems and Clustering. The Title of my M.Phil dissertation was "Intuitionistic Fuzzy  $\Gamma$ -Ideals of  $\Gamma$ -LA-semigroups".

I worked on Intuitionistic Fuzzy set in  $\Gamma$ -semihypergroups. My published and accepted papers are 56 and 25 papers are submitted in International Reputed Journals. The title of my PhD Theses is A New Approach to  $\Gamma$ -semihypergroups through Applications of Intuitionistic Fuzzy sets.

My total Citation is 212 and h-Index is 10.

<http://scholar.google.com.pk/citations?user=cC3CJqUAAAAJ&hl=en>

### PUBLISHED/ACCEPTED PAPERS;

- (1) M. Aslam, **S. Abdullah** and N. Nasreen, Direct Product of Intuitionistic Fuzzy Set in LA-semigroup Fuzzy Sets, Rough Sets and Multivalued Operations and Applications, Vol. 3, No. 1, (January-June 2011): 1– 9.
- (2) **S. Abdullah**, M. Aslam and T. Anwar, A note on M-hypersystems and N-hypersystems in  $\Gamma$ -semihypergroups Quasigroups and Related Systems, Vol. 19 (2011), 169-172.
- (3) M. Aslam and **S. Abdullah**, M. Imran and M. Ibrar, Direct Product of Intuitionistic Fuzzy Set in LA-semigroups-II, Annals of Fuzzy Mathematics and Informatics (AFMI), Vol. 2 (2011) No.2, 151-160.
- (4) **S. Abdullah**, B. Davvaz and M. Aslam,  $(\alpha, \beta)$ -intuitionistic fuzzy ideals in hemirings, Computer and Mathematics with Applications, Vol. 62 (2011), 8. 3077-3090. **(I.F =2.069)**.
- (5) M. Aslam and **S. Abdullah** and N. Amin, Characterization of  $\Gamma$ -LA-semigroups by Generalized Fuzzy  $\Gamma$ -Ideals International Journal of Mathematics and Statistics Vol.11 (2012) No. 1, 29-50.
- (6) **S. Abdullah**, M. Aslam, N. Amin and T. Khan, Direct Product of Finite Fuzzy subsets of LA-semigroups Annals of Fuzzy Mathematics and Informatics (AFMI), Vol. 3, 2, (2012), 281–292.
- (7) M. Aslam and **S. Abdullah**, On Intuitionistic Fuzzy Semi-prime  $\Gamma$ -Ideals of  $\Gamma$ -LA-semigroups Journal Applied Mathematics and Informatics (JAMI), Vol. 30, No.3-4 (May issue), 2012, 603-612.
- (8) Naveed Yaqoob, **S. Abdullah**, Faisal, S.M. Qurashi, On Bi- $\Gamma$ -hyperideals and M-hypersystems in Left Almost  $\Gamma$ -semihypergroups, Int. J. Algebra and Statistics. Vol. 1, (2012), 1-7.
- (9) **S. Abdullah**, B. Satyanarayana, N. Naveed and S. M. Quraishi, Direct Product of Intuitionistic Fuzzy H-ideal in BCK-Algebras, Int. J. Algebra and Statistics. Vol. 1: 1(2012), 8-16.
- (10) **S. Abdullah**, W. Mohammad and M. Naeem, Direct Product of Finite Intuitionistic fuzzy set in BCK-Algebra Int. J. Algebra and Statistics. Vol.1: 1(2012), 57-67.
- (11) M. Aslam, **S. Abdullah**, B. Davvaz and N. Yaqoob, Rough M-hypersystems and Fuzzy M-hypersystems in  $\Gamma$ -semihypergroups, Neural Computing & Application, (2012) 21 (Suppl 1): S281–S287. **(I.F= 1.168)**.
- (12) A. Ahmed, M. Aslam and **S. Abdullah**,  $(\alpha, \beta)$ -fuzzy hyperideals of semihyperring World Applied Sciences Journal 18 (11): 1501-1511, 2012. **(ISI Index)**
- (13) M. Aslam, **S. Abdullah** and M. Maqsood, Bipolar fuzzy ideals in LA-semigroups World Applied Sciences Journal 17 (12): 1769-1782, 2012. **(ISI Index)**
- (14) N. Yaqoob, **S. Abdullah**, N. Rehman and M. Naeem, Roughness and fuzziness in ordered Ternary semigroups World Applied Sciences Journal 17 (12): 1683-1693, 2012. **(ISI Index)**
- (15) **S. Abdullah**, K. Hila and M. Aslam, On bi-  $\Gamma$ -hyperideals of  $\Gamma$ -semihypergroups U.P.B. Sci. Bull., Series A, Vol. 74, Iss. 4, 2012, 79-90. **(I.F=0.300)**
- (16) **S. Abdullah**, M. Aslam and M. Naeem, Intuitionistic Fuzzy bi- $\Gamma$ -Ideals of  $\Gamma$ -LA-semigroups. Int. J. Algebra and Statistics. Vol. 1, 2(2012), 46-56.
- (17) **S. Abdullah**, M. Aslam, T. A. Khan an M. Naeem, A new type of fuzzy normal subgroup and fuzzy coset, Journal of Intelligent & Fuzzy Systems 25 (2013) 37–47 **(I.F=0.788)**
- (18) K. Hila, **S. Abdullah** and J. Dine, 'On intuitionistic fuzzy hyperideals in Gamma-semihypergroups through left operator semihypergroup' Accepted in Utilitas Mathematica **(I.F=0.280)**
- (19) A. Ahmad, M. Aslam and **S. Abdullah**, Interval valued  $(\alpha, \beta)$ -fuzzy hyperideals of semihyperring U.P.B. Sci. Bull., Series A, Vol. 75, Iss. 2, 2013, 69-86. **(I.F=0.300)**

- (20) **S. Abdullah**, M. Naeem and M. Imran, On Intuitionistic Fuzzy  $\Gamma$ -Ideals of  $\Gamma$ -LA-semigroups, *Annals of Fuzzy Mathematics and Informatics*, Vol. 6 (2013), 1, 17-31.
- (21) **S. Abdullah**, M. Aslam, B. Davvaz, M. Naeem A note on "Ordered semigroups characterized by their  $(\epsilon, \epsilon \vee \eta)$ -fuzzy bi-ideals", *U.P.B. Sci. Bull., Series A*, Vol. 75, Iss. 3, 2013, 41-44. **(I.F=0.300)**
- (22) T. Anwar, M. Naeem and **S. Abdullah**, Generalized anti fuzzy ideals in Near-rings. *Indian Journal of Science and Technology*, Vol. 64(2013), 8, 5144-5154. **(ISI Index)**
- (23) M. Aslam and **S. Abdullah**,  $(\Phi, \Psi)$ -Intuitionistic Fuzzy Ideals in semigroups, *Italian Journal of Pure and Applied Mathematics*, Vol. 33, 2012.
- (24) A. Rehman, **S. Abdullah**, M. Aslam and M. S. Kamran, A study on fuzzy soft sets and its operations *Annals of Fuzzy Mathematics and Informatics*, 6, 3, (2013), 339-362.
- (25) **S. Abdullah**, T. Anwar, N. Amin and M. Taimur, Anti-fuzzy ideals in BE-algebras, *Annals of Fuzzy Mathematics and Informatics*, 6, 3, (2013), 487-494.
- (26) M. Aslam and **S. Abdullah**, Intuitionistic Fuzzy Prime Ideals of BCK-algebras *Annals of Fuzzy Mathematics and Informatics*, 7, 4(2014), 661-668.
- (27) K. Hila and **S. Abdullah**, A study on intuitionistic fuzzy sets in  $\Gamma$ -semihypergroups, *Journal of Intelligent & Fuzzy Systems*, 26 (2014) 1695–1710. **(I.F=1.818)**
- (28) **S. Abdullah**, S. Aslam and N. Amin, Characterization of LA-semigroup by interval valued  $(\alpha, \beta)$ -fuzzy ideals. *Journal of Applied Mathematics and Informatics*, 32, (2014), 405-426.
- (29) **S. Abdullah**, M. Aslam and K Ullah, Bipolar fuzzy soft sets and its applications in decision making problem *Journal of Intelligent & Fuzzy Systems*, 27:2 (2014), 729-742. **(I.F=1.818)**
- (30) **S. Abdullah**, M. Aslam and H. Hedayati, Interval valued  $(\alpha, \beta)$ -intuitionistic fuzzy ideals in hemirings. *Journal of Intelligent & Fuzzy Systems* 26, (2014), 2873-2888. **(I.F=1.818)**
- (31) **S. Abdullah**, M. Aslam and H. Hedayati, Characterizations of regular semigroups by interval valued fuzzy ideals with thresholds  $(\tilde{\alpha}, \tilde{\beta})$ . *Annals of Fuzzy Mathematics and Informatics*, 8, 3: (2014), 419-445.
- (32) **S. Abdullah**, N-dimensional  $(\alpha, \beta)$ -Fuzzy Ideals of hemirings, *International Journal of Machine Learning and Cybernetics*, 5:4(2014), 635-645.
- (33) M. Aslam, **S. Abdullah** and S. Aslam, Characterization of LA-semigroup by interval valued  $(\tilde{\alpha}, \tilde{\beta})$ -fuzzy ideals. *Afrika Mathematica*, 25:3(2014), 501-518.
- (34) S. Abdullah, M. Naeem and B. Davvaz, Characterizations of regular semigroups by interval valued fuzzy ideals with threshold, *Annals of Fuzzy Mathematics and Informatics*, 8:3 (2014), 419-445.
- (35) M. Atique Khan and S. Abdullah, A new generalization of fuzzy ideals in LA-semigroups, *Annals of Fuzzy Mathematics and Informatics*, 8:6 (2014), 853-867.
- (36) M. Gulistan, S. Abdullah and T. Anwar, Characterizations of Regular LA-semi groups by  $([\alpha], [\beta])$ -fuzzy ideals, *International Journal of Mathematics and Statistics*, 15:2 (2014), 71-88.
- (37) S. Abdullah, K. Ullah and M. Aslam, Bipolar fuzzy soft relations and applications in decision making problems, *Journal of Advanced Research in Pure Mathematics*, 6 (2014), 87-113.
- (38) M. Gulistan, M. Aslam and S. Abdullah, Generalized Anti Fuzzy Interior Ideals in LA-Semigroups *Appl. Math. Inf. Sci. Lett.* 2:3 (2014), 111-116.
- (39) S. Abdullah, M. Aslam, B. Davvaz, Semigroups characterized by the properties of  $(\alpha, \beta)^*$ -fuzzy ideals, *Annals of Fuzzy Mathematics and Informatics* 9:1 (2015), 43-63.
- (40) **S. Abdullah**, M. Aslam and K. Hila, A new generalization of fuzzy bi-ideals in semigroups and its Applications in fuzzy finite state machines, *Multiple-Valued Logic and Soft Computing*, 24(2015), 599-623. **(I.F=1.047)**
- (41) A. F. Ali1, S. Abdullah and M. S. Kamran and M. Aslam, Generalization of  $([e], [e] \vee [c])$ -Ideals of BE-algebras *New Trends in Mathematical Sciences*, 3, 1, (2015), 1-11.

- (42) S. Abdullah and M.Naeem, A new type of interval valued fuzzy normal subgroups of groups  
New Trends in Mathematical Sciences, 3, 1, (2015), 62-77.
- (43) **S. Abdullah** and N. Amin, Analysis of S-box Image encryption based on generalized fuzzy soft expert set,  
Nonlinear Dynamics, (2015) 79:1679–1692 **(I.F=2.814)**
- (44) M. Gulistan, **S. Abdullah** and S. Hussain, Anti fuzzy relation in Modules, New Trend in Mathematical Science,  
3, No. 3, 58-64 (2015)
- (45) Tahir Mahmood, **Saleem Abdullah** and Qaisar Khan, Regular cubic language and regular cubic expression, 20,  
2, 2015, 97-132.
- (46) **S. Abdullah** and A. F. Ali, Applications of N-structures in implicative filters of BE-algebras, Journal of  
Intelligent & Fuzzy Systems, 29, (2), 2015:517-524 **(I.F=1.818)**
- (47) Muhammad Shahzad, Sumaira Rehman, Rabia Bibi, Hafiz Abdul Wahab, **Saleem Abdullah**, Sarfraz Ahmed,  
Measuring the complex behavior of the SO<sub>2</sub> oxidation reaction, Computational Ecology and Software, 2015,  
5(3): 254-270. **(ISI Index)**
- (48) S. Abdullah, I. Khan and M. Aslam, Construction of cubic soft sets: a new mathematical modelling for dealing  
with uncertainty, Journal of Intelligent & Fuzzy Systems, Accepted in 2014. **(I.F=1.818)**
- (49) A. Ahmed, M. Aslam, S. Abdullah, n-Dimensional fuzzy hyperideals in semihyperring  
International Journal of Machine Learning and Cybernetics, Accepted in 2014. **ISI-Index**
- (50) S. Abdullah, M. Aslam and T. Ahmad Khan, A new generalization of fuzzy groups and level subsets  
Annals of Fuzzy Mathematics and Informatics, Accepted in 2014.
- (51) **S. Abdullah**, M. Aslam and K. Hila, Interval valued intuitionistic fuzzy sets in  $\Gamma$ -semihypergroups.  
International Journal of Machine Learning and Cybernetics, Accepted in 2014. **ISI-Index**
- (52) T. Mehmood, **S. Abdullah**, Q. Khan, Application of cubic structure in finite state machines,  
Revised form submitted in Journal of Intelligent & Fuzzy Systems.
- (53) **S. Abdullah** W. S. Al Shammakh, T. Mahmood and M. Shahzad, Fuzzy soft set over a fuzzy topological space  
International Journal of Machine Learning and Cybernetics, Accepted in 2015 **ISI-Index**
- (54) **S. Abdullah**, M. Naeem and K. Hila, Applications of soft intersection sets in  $\Gamma$ -near-rings, Annals of Fuzzy  
Mathematics and Informatics, Accepted in 2015.
- (55) M. Farooq, L. Ahmmed, Saifullah and **S. Abdullah**, Solution of two-point boundary value problem by fuzzy  
Laplace Transform, Journal of Advanced Research in Scientific Computing, (Accepted), 2015.
- (56) Tahir Mahmood, **Saleem Abdullah**, Muhammad Bilal, Saeed ur Rashid, Multiple criteria decision making based  
on bipolar valued fuzzy sets, Annals of Fuzzy Mathematics and Informatics (Accepted), 2015.
- (57) **S. Abdullah**, M. Naeem and S. Hussain, Interval valued  $(\alpha, \beta)$ -intuitionistic fuzzy ideals in semigroups,  
International Journal of Applied Mathematics and Informatics Accepted in 2015.
- (58) On N-fuzzy soft set and an application in decision making problem, Accepted in Journal of New Theory 2015
- (59) Q. Ul Ain, S. Abdullah and M. Shahzad, Applications of N-Structure in ideal of LA-semigroups, Accepted in  
Applied Mathematics and Information Science Letter, 2015
- (60)

### SUBMITTED PAPERS;

- 1) **S. Abdullah** and M. Aslam, *Generalized Intuitionistic Fuzzy Interior ideals in semigroups.*
- 2) M. Aslam, M. Gulistan and **S. Abdullah**, *Generalized Anti Fuzzy interior ideals in LA-semigroups.*
- 3) M. Aslam, **S. Abdullah** and M. Gulistan, *Characterization of regular LA-semigroup by anti fuzzy ideals.*
- 4) T. Anwar, **S. Abdullah** and N. Amin, *Bi-polar Fuzzy ideals of semigroups.*

- 5) M. Aslam, S. **Abdullah** and T. Ghaffar, **N-fuzzy ideals in LA-semigroups**,
- 6) M. Aslam, S. **Abdullah** and T. Ghaffar, *Characterization of LA-semigroup by N-fuzzy ideals.*
- 7) M. Aslam, S. Aslam and S. **Abdullah**, *Characterization of LA-semigroup by Interval Valued  $(\alpha, \beta)$ -fuzzy ideals.*
- 8) T. Anwar, S. **Abdullah** and B. Davvaz, *A new type of Intuitionistic Fuzz Ideals of Near Rings.*
- 9) T. Anwar, S. **Abdullah** and B. Davvaz, *Interval valued  $(\alpha, \beta)$ -intuitionistic fuzzy ideals in near-rings.*
- 10) S. **Abdullah**, M. Naeem and K. Hila, **Soft Int.  $\Gamma$ -near-rings and Soft Int.  $\Gamma$ -ideals**,
- 11) S. **Abdullah**, M. Aslam and T. Ahmed Khan, **A new generalization of fuzzy groups and level sets.**
- 12) S. **Abdullah**, K. Hila and W. Pedrycz, **Generalized fuzzy bi-hyperideals in semihypergroups**,
- 13) M. Aslam S. **Abdullah** and M. A. Khan, **Characterization of LA-semigroup by new generalized fuzzy ideals**,
- 14) S. **Abdullah**, **Cubic finite state machine and cubic transformation semigroup**,
- 15) S. **Abdullah**, **Intuitionistic soft sets and Intuitionistic soft graphs**,
- 16) M. Aslam and S. **Abdullah**, **A new generalization of interval valued fuzzy cosets of groups**
- 17) M. Aslam, S. **Abdullah** and A. Ahmad, **Cubic Ideals in LA-semigroups**
- 18) K. Ullah, S. **Abdullah** and M. Aslam, **Bipolar Fuzzy soft functions**
- 19) K. Ulla, S. **Abdullah** and M. Aslam, **Applications of Bipolar Fuzzy soft matrix.**
- 20) M. S. Kamran, F. Ali, S. **Abdullah** and M. Aslam, **Generalization of  $([e],[e] \vee [c])$ -ideals of BE-algebras**
- 21) M. S. Kamran, F. Ali, S. **Abdullah** and M. Aslam, **Applications of N-structures in implicative filters of BE-algebras**
- 22) M. S. Kamran, F. Ali, S. **Abdullah** and M. Aslam,  **$([e],[e] \vee [c_k])$ -fuzzy implicative filters of BE-algebras**
- 23) L. Ahmad, M. Farooq, S. Ullah, S. **Abdullah**, **Solving fuzzy two-point boundary value problem using fuzzy Laplace transform.**
- 24) L. Ahmad, M. Farooq, S. **Abdullah**, **Solving fourth order fuzzy differential equation by fuzzy Laplace Transform.**
- 25) A. Qayyum, S. **Abdullah** and M. Aslam, **Cubic soft expert set and its Application in decision making**,
- 26) A. Ahmad, S. **Abdullah** and M. Aslam, **On Fuzzy semihypergroups**,
- 27) S. Hussain, S. **Abdullah** and A. Ahmad, **T-associate and w-associate subgroups of orthodox and weak orthodox semigroups.**
- 28) S. **Abdullah**, M. A. Khan and M. Shahzad, **A new generalization of fuzzy ideals of LA-semigroup**,
- 29) S. Ayub and S. **Abdullah**, **Bipolar Fuzzy weighted aggregation operator and application in group decision making**,
- 30) S. Ayub and S. **Abdullah**, **Bipolar fuzzy power weighted aggregation operator and applications in group decision making problem**
- 31) S. Ayub and S. **Abdullah**, **Similarity and distance measure of bipolar fuzzy sets and applications in decision making problems**
- 32) A. Rehman, M. Waseem, S. **Abdullah**, **N-fuzzy normal subgroups and cosets**
- 33) A. M. Khattak, S. **Abdullah**, **Characterization of B-soft separation axioms in Bi-soft topological spaces**,
- 34) A. Rehman, S. **Abdullah** and I. S. Khan and M. Shahzad, **N-fuzzy quasi-ideals of semigroups**
- 35) A. Rehman, S. **Abdullah**, I. S. Khan and M. Shahzad, **A study on N-fuzzy interior ideals in semigroups**
- 36) A. Rehman, S. **Abdullah**, M. Waseem and M. Shahzad, **N-Fuzzy subgroupoids and subgroups**
- 37) T. Mahmood, S. **Abdullah**, M. S. Rashid and M. Bilal, **A multi-criteria group decision making approach with cubic SIR method**,
- 38) T. Mahmood, S. **Abdullah**, M. S. Rashid, **Multicriteria decision making based on cubic set**
- 39) M. Jamil and S. **Abdullah** and M. Yaqoob **Filter theory of BL-hyperalgebras**
- 40) M. Jamil and S. **Abdullah** and M. Yaqoob, **On weakly BL-hyperalgebras**

- 41) S. T. Abbas Raza and S. Abdullah, **Group decision making through interval-valued intuitionistic fuzzy soft set TOPSIS method using new hybrid score function**
- 42) M. Shakeel, S. Abdullah and M. Shahzad, **On Cubic ordered weighted distance operator and application group decision making problems**
- 43) M. Shakeel, S. Abdullah and M. Shahzad, **Cubic preference relation and application in multi-attribute decision making problems**
- 44) Saleem Abdullah, I. Hussain, and B. Bedregal, **Analysis of S-boxes based on interval valued intuitionistic fuzzy information and image encryption**
- 45) F. Hussain, K. Rahman, M. S. A. Khan and S. Abdullah, **On Left almost semirings**
- 46) **Characterization of Hv- $\Gamma$ -semigroups through intuitionistic fuzzy Hv-  $\Gamma$ -ideals**
- 47) S. Abdullah, M. Ali and F. Smrandache, **TOPSIS method based on Nuetrosophic soft Expert set and applications in S-box image encryption.**
- 48) S. Abdullah, M. Ali, **intuitionistic fuzzy soft expert Set and its Application**
- 49) R. Ahmed and S. Abdullah, **Intuitionistic fuzzy soft set over intuitionistic fuzzy topological spaces**
- 50) Z. R. Mashwani<sup>1</sup>, S. Abdullah and B. Bedregal, **Decision making for nutritious forage selection: A mathematical approach**

## CONFERENCE, SEMINARS AND BOOK

### Conference Talk

- 1) An Invited speaker for 11<sup>th</sup> International Pure Mathematics Conference 06-08 August 2010, Islamabad, Pakistan.  
Title of speak "Intuitionistic Fuzzy bi-  $\Gamma$ -Ideals of  $\Gamma$ -LA-semigroups",
- 2) Invited Speaker for 6th Symposium on Computational Complexities, Innovation and Solutions, 09-10 May, 2011, COMSATS Institute of Information Technology, Abbottabad, KPK, Pakistan.  
Title of speak "On Intuitionistic Fuzzy Sets in  $\Gamma$ -semihypergroups"
- 3) An invited speaker for 1st International Conference on Topology and Its Application 04-07 July 2011, CIIT, Islamabad, Pakistan.  
Title of speak Topological structure on semihypergroups,
- 4) An Invited speaker for 12th International Pure Mathematics Conference 29-31 July 2011, Islamabad, Pakistan.  
Title of speak "Quasi  $\Gamma$ -hyperideals of  $\Gamma$ -semihypergroups",
- 5) An invited speaker for 4<sup>th</sup> International Conference on Mathematical Sciences, March 11-14, 2012, Al ain, UAE,  
Title of speak Soft intersection  $\Gamma$ -near-rings and its applications,
- 6) An invited speaker for 5<sup>th</sup> Saudi Sciences Conference, April 16-18, 2012, Umm al Qurra University, Makkah, Saudi Arabia.  
Title of speak "Interval valued intuitionistic fuzzy sets in  $\Gamma$ -semihypergroups"
- 7) Attended 12<sup>th</sup> International Pure Mathematics Conference 29-31 July 2012, Islamabad, Pakistan.
- 8) Attended Two days National Conference on Mathematical Analysis, 18-19, September 2012.
- 9) Invited speaker for 3<sup>rd</sup> International Conference on Applied Analysis and Mathematical Modelling, June 1-4, 2013, Istanbul, Turkey.
- 10) Organizing member of 2<sup>nd</sup> Biosafety workshop at Alshifa Medical College, Islamabad, Pakistan.
- 11) Invited speaker for International Conference on Algebras and Mathematical Logic: Theory and Application, June 2-6, 2014, Kazan, Russia
- 12) Invited speaker for International Conference on Mathematics and Statistical Modeling, Dec, 15-17, 2014, Pattaya, Thailand.
- 13) Invited speaker for 8<sup>th</sup> International on Industrial and Applied Mathematics August 10-14, Beijing, China.



## Seminars

- 1) delivered a seminar on “Direct Product of Intuitionistic fuzzy sets in LA-semigroups” at Department of Mathematics in Algebra Forum, 2011, Islamabad, Pakistan
- 2) Delivered a seminar on “On  $(\alpha, \beta)^*$ -Fuzzy ideals in Semigroups” at Department of Mathematics, Quaid-i-Azam University, Islamabad, Pakistan.
- 3) Delivered a Seminar on “Cubic finite state machine and cubic transformation semigroup” at Department of Mathematics, Quaid-i-Azam University, Islamabad, Pakistan.

## Conference Proceeding,

- 1) K. Hila and S. Abdullah, **On topological structure on semihypergroups**, Proceeding of international Conference on Topology (ICTA2011), Cambridge Scientific Publishers, (2012), 217–225.
- 2) S. Abdullah, M. Aslam M. Naeem and K. Hila, **Soft intersection  $\Gamma$ -near-rings and its applications** Proceeding, International Conference in Mathematics (ICMS2012), 2012, 615-635.
- 4) S. Abdullah and S. Abdullah, **Interval valued intuitionistic fuzzy sets in  $\Gamma$ -semihypergroups**, **Proceeding 5<sup>th</sup> Saudi Sciences Conference, April 16-18, 2012**
- 3) S. Abdullah and K. Hila, **Generalized Fuzzy Bi-hyperideals in Semihypergroups**, Proceeding in 1st International Eurasian Conference on Mathematical Sciences and Applications, IECMSA-2012, 31-32.
- 4) M.Aslam, S. Abdullah, **N-dimensional  $(\alpha, \beta)$ -fuzzy ideals of hemirings**, Proceeding in 1st International Eurasian Conference on Mathematical Sciences and Applications, IECMSA-2012, 24-25.
- 5) S. Abdullah, M. Aslam and K. Allah, **Bipolar fuzzy soft set and its applications**, proceeding in 3<sup>rd</sup> International Conference on Applied Analysis and Mathematical Modeling ICAAMM, 2013, 210-211.
- 6) S. Abdullah and M.Naeem, **A new type of interval valued fuzzy normal subgroups of groups**. 2<sup>nd</sup> International Conference on Mathematics and Statistical Modeling, 2014,

## Book

Currently, I am writing a book entitled “A fuzzy approach to algebraic structure”.

## Awards

- 1) M.Phil fellowship award for year 2009-2011
- 2) I got 1<sup>st</sup> position in M.Phil class
- 3) I got 1<sup>st</sup> position in M.Phil research work throughout the Faculty of Natural Sciences.
- 4) Awarded for travel grant of 148,421 Rs, by the Higher Education Commission (HEC) of Pakistan to present a research paper in 4<sup>th</sup> International Conference on Mathematical Sciences at United Arab Emirate University, Al Ain, UAE.
- 5) Awarded for travel grant of 111,421 Rs by Pakistan Science Foundation (PAF) to present a research paper in 5<sup>th</sup> Saudi Science Conference at Umm al Qura University Makkah, Saudi Arabia.
- 6) Awarded for travel grant of 178,121 Rs by the Higher Education Commission (HEC) of Pakistan to present a research paper in 3<sup>rd</sup> International Conference on Applied Analysis and Mathematical Modelling, June 1-4, 2013, Istanbul, Turkey.
- 7) Quaid-i-Azam University Ph.D Fellowship from 2011 to 2013.
- 8) HEC PhD fellowship award for years 2012 to 2014.
- 9) Awarded for travel grant of 217,589 RS by the Higher Education Commission (HEC) of Pakistan to present a research paper in International Conference on Algebras and Mathematical Logic: Theory and Application, June 2-6, 2014, Kazan, Russia.
- 10) Awarded for travel grant of 150,000 RS by the Pakistan Science Foundation (PSF) to present a research paper in International Conference on Mathematical and Statistical Moedeling, Dec 15-17, 2014, Pattay, Thailand
- 11) Awarded for travel grant of 238,000 RS by the Higher Education Commission (HEC) to present a research paper in International Conference on Industrial and Applied Mathematics, August 10-14, 2015, Beijing, China.
- 12) Awarded for travel grant of 4000 RMB (65000 RS) by the ICIAM to present a research paper in International Conference on Industrial and Applied Mathematics, August 10-14, 2015, Beijing, China

## **Editorial Board Member**

- 1) **Indian Journal of Fuzzy Mathematics and Systems**
- 2) **Applied Science Reports (ASR)**
- 3) **Research Journal of Modelling and Simulation**
- 4) **Frontiers of Mathematics and Its Applications**

## **Referring Journals**

- 1) **Journal of Advanced Research in Pure Mathematics (JARPM).**
- 2) **Annals of Fuzzy Mathematics and Informatics (AFMI).**
- 3) **World Applied Sciences Journal (WASJ).**
- 4) **Computer and Mathematics with Applications (CAMWA).**
- 5) **Neural Computing and Applications (NCA)**
- 6) **Information Sciences**
- 7) **Journal of Intelligent and Fuzzy Systems (JIFS)**
- 8) **Iranian Journal of Sciences and Technology (JIST)**
- 9) **Knowledge Based Systems (KBS)**
- 10) **Transactions on Fuzzy Systems (IEE)(TFS)**
- 11) **International Journal of Fuzzy Systems**
- 12) **International Journal of Mathematics and Mathematical Sciences**
- 13) **Indian Journal of Fuzzy Mathematics and Systems**
- 14) **Applied Science Reports (ASR)**
- 15) **Research Journal of Modeling and Simulation and**
- 16) **Frontiers of Mathematics and Its Applications**
- 17) **Applied Soft Computing**
- 18) **Soft Computing**
- 19) **Applied Mathematics and Information Sciences**
- 20) **Applied Mathematics and Informatics**
- 21) **Applied Mathematics and Information Science Letters**
- 22) **Journal of New Theory**
- 23) **Mathematical Report**
- 24) **Journal of Algebra**
- 25) **Advanced on Fuzzy Systems**
- 26) **Fuzzy Set and Systems**

## **Member of Society**

1. **Member of Pakistan Mathematical Society (PakMS), Islamabad, Pakistan.**
2. **Member of Quaidian Mathematical Society (QMS), Islamabad, Pakistan.**
3. **Member of Society for Industrial and Applied Mathematics (SAIM) , Philadelphia, USA.**
4. **Member of International Association of Engineers (IAENG), Hong Kong.**
5. **Member of IAENG Society of Artificial Intelligence, Hong Kong.**
6. **Member of IAENG Society of Computer Science, Hong Kong.**
7. **Member of IAENG Society of Scientific Computing, Hong Kong.**
8. **Member of Pakistan Researchers forum, (PRF)**

## REFERENCES

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