



PERSONAL PROFILE

Name: Dr. Mijanur Rahaman Seikh

Designation: Assistant Professor

Address: Department of Mathematics
Kazi Nazrul University
Asansol- 713 340, West Bengal, India

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Specialization: Operations Research

Areas Research Interest: Game Theory, Decision Making, Inventory Control,
Supply Chain Management

Education:

- M.Sc., Applied Mathematics, Jadavpur University, Kolkata-700 032, India.
- Ph.D., Mathematics, Vidyasagar University, Midnapore-721 102, India.

Teaching Experience: Assistant Professor, Department of Mathematics, Kazi Nazrul University,
Asansol-713 340 since 19th September 2014.

Course/Subject Taught: Operations Research, Numerical Analysis, Ordinary Differential
Equations, Partial Differential Equations.

Membership of Learned Society:

- Calcutta Mathematical Society (Life Member)
- Operational Research Society of India (Life Member)
- Soft Computing Research Society (Life Member)

Membership of Editorial Board:

- Annals of Pure and Applied Mathematics(APAM)

Administrative Experience:

- Secretary, College Council (Additional Charge), Kazi Nazrul University.
- Chairperson of Under Graduate Board of Studies (UGBOS) in Statistics
- Coordinator, Department of Mathematics, Kazi Nazrul University.
- Coordinator, Department of Geography, Kazi Nazrul University.

➤ **Books/Monographs Published:**

- Integral Equations and Calculus of Variations, Narosa Publishing House, (2019), ISBN: 978-81-8487-655-0
- A Textbook of Complex Analysis, *Universities Press*, (2018), ISBN: 978-93-86235-65-7.
- A Study on Game Theory in Fuzzy Environment, *Lap Lambert Academic Publishing*, Germany, (2016), ISBN: 978-3-659-91269-6.

➤ **Seminar/Conference/ Workshop organized:**

- Acted as Joint Organizing Secretary to organize two-day international e-conference on 'Emerging Issues in Supply Chain Management: Interruption, Opportunities and Challenges' during June 06-07, 2020.
- Acted as Convener to organize National Conference on 'Emerging Trends in Mathematics and its Applications' during March 20-21, 2018.
- Acted as Convener to organize two days work shop on 'C programming' during August 24-25, 2017.

➤ **Workshop/ Faculty Development Programme attended:**

1. One week faculty development programme on 'Soft Computing Techniques and their Applications' organized by the Department of Mathematics, Jaypee Institute of Information Technology, Noida during July 13-18, 2020.
2. Faculty development programme on 'Multi-objective Optimization' organized by the Soft Computing Research Society, New Delhi during June 23-27, 2020.
3. National workshop on 'Soft Computing and its Applications in Real Life Problems' organized by the Department of Mathematics, National Institute of Technology, Agartala, Tripura during 9th - 13th April, 2018.
4. Workshop on 'MATLAB' organized by the Calcutta Mathematical Society, Kolkata, held on 12th April, 2017.
5. National workshop on Optimization and Fuzzy Mathematics organized by Department of Applied Mathematics, Vidyasagar University, Midnapore, during 9th-13th September 2014.

➤ **List of Research Papers Accepted/ Published in International Journals**

1. **Seikh, M. R.**, Karmakar, S., Xia, M., 'Solving matrix games with hesitant fuzzy pay-offs', *Iranian Journal of Fuzzy Systems*, 17(4), **2020**, 25-40.
2. **Seikh, M. R.**, Mandal, U., 'Intuitionistic fuzzy Dombi aggregation operators and their application to multiple attribute decision-making', *Granular Computing*, **2020**
3. Ghosh, S. K., **Seikh, M. R.**, Chakraborty M., 'Pricing Strategy and Channel Co-ordination in a Two-Echelon Supply Chain Under Stochastic Demand', *Int. J. Appl. Comput. Math*, 6:28, **2020**
4. Ruidas, S., **Seikh, M. R.**, Nayak, P. K., 'An EPQ model with stock and selling price dependent demand and variable production rate in interval environment', *Int J Syst Assur Eng Manag*, 11(2), **2020**, 385-399.
5. Ruidas, S., **Seikh, M. R.**, Nayak, P. K., Sarkar, B., 'A Single Period Production Inventory Model in Interval Environment with Price Revision', *Int. J. Appl. Comput. Math*, 5:7 **2019**

6. Ruidas, S, **Seikh, M. R.**, Nayak, P. K., Pal, M. M., 'Interval valued EOQ model with two types of defective items', *Journal of Statistics & Management Systems*, 21(6), **2018**, 1059-1082.
7. **Seikh, M. R.**, Nayak, P. K., Pal, M. M., 'Intuitionistic fuzzy programming technique for solving interval valued matrix games', *International Journal of Pure and Applied Mathematics*, 113(6), **2017**, pp. 334-342.
8. Ruidas, S, **Seikh, M. R.**, Nayak, P. K., Pal, M. M., 'An interval valued EPQ model in imperfect production system with rework of regular production, shortages and sales return via particle swarm optimization', *International Journal of Pure and Applied Mathematics*, 113(6), **2017**, pp. 375-384.
9. **Seikh, M. R.**, Nayak, P. K., Pal, M. M., 'Aspiration level approach to solve matrix games with I-fuzzy goals and I-fuzzy Pay-offs', *Pacific Science Review A: Natural science and Engineering*, 18, **2016**, pp. 5-13.
10. **Seikh, M. R.**, Nayak, P. K., Pal, M. M., 'An Alternative Approach to Solve Bi-matrix Games with Intuitionistic Fuzzy Goals', *International Journal of Fuzzy Computation and Modeling*, 1(4), **2015**, pp. 362-381.
11. **Seikh, M. R.**, Nayak, P. K., Pal, M. M., 'Solving Bi-matrix Games with Pay-offs of Triangular Intuitionistic Fuzzy Numbers', *European Journal of Pure and Applied Mathematics*, 8(2), **2015**, pp. 153-171.
12. **Seikh, M. R.**, Nayak, P. K., Pal, M. M., 'Matrix Games with Intuitionistic Fuzzy Pay-offs', *Journal of Information & Optimization Sciences*, 36(1-2), **2015**, pp. 159-181.
13. **Seikh, M. R.**, Nayak, P. K., Pal, M. M., 'Application of intuitionistic fuzzy mathematical programming with exponential membership and quadratic non-membership functions in matrix games', *Annals of Fuzzy Mathematics and Informatics*, 9(2), **2015**, pp. 183-195
14. **Seikh, M. R.**, Nayak, P. K., Pal, M. M., 'An alternative approach for solving fuzzy matrix games', *International Journal of Mathematics and Soft Computing*, 5(1), **2015**, pp. 79-92.
15. **Seikh, M. R.**, Nayak, P. K., Pal, M. M., 'Solving interval valued matrix games by using Fuzzy programming approach', *Wesleyan Journal of Research*, 7(1), **2014**, pp. 190-197.
16. **Seikh, M. R.**, Nayak, P. K., Pal, M. M., 'Matrix games in intuitionistic fuzzy environment', *International Journal of Mathematics in Operational Research*, 5(6), **2013**, pp. 693-708.
17. **Seikh, M. R.**, Pal, M. M., Nayak, P. K., 'Non-normal triangular fuzzy numbers, its operations, inequalities and optimization techniques', *Journal of Fuzzy Mathematics*, 21(1), **2013**, pp. 113-128.
18. **Seikh, M. R.**, Nayak, P. K., Pal, M. M., 'Notes on triangular intuitionistic fuzzy numbers', *International Journal of Mathematics in Operational Research*, 5(4), **2013**, pp. 446-465.

19. **Seikh, M. R.,** Pal, M. M, Nayak, P. K., ‘Application of triangular intuitionistic fuzzy numbers in bi-matrix games’, *International Journal of Pure and Applied Mathematics*, 79(2), **2012**, pp. 235-247.
20. **Seikh, M. R.,** Nayak, P. K., Pal, M. M., ‘Generalized triangular fuzzy numbers in Intuitionistic fuzzy environment’, *International Journal of Engineering Research and Development*, 5(1), **2012**, pp. 08-13.

➤ **Seminar/Conference / Workshop Attended:**

1. Presented a paper entitled “*An Approach for Solving Intuitionistic Fuzzy Matrix Games*” in National Conference on “Futuristic Trends in Applied and Computational Mathematics” organized by the Department of Applied Mathematics with Oceanology and computer programming, **Vidyasagar University**, Midnapore, during 29-30 March, **2017**.
2. Presented a paper entitled “*Intuitionistic Fuzzy Programming Technique for solving Interval Valued Matrix Games*” in National Conference on “Mathematical Techniques and their Applications” organized by **SRM University**, Kattankulathur, Tamil Nadu, during Jan 27-28, **2017**.
3. Presented a paper entitled “*A New Methodology for the Solution of Matrix Games with Pay-offs of Triangular Fuzzy Numbers*” in International Conference on “Mathematics & Computer Science” organized by International Multidisciplinary Research Foundation (**IMRF**), Coimbatore, Tamil Nadu, during Dec 15-17, **2016**.
4. Presented a paper entitled “*Bi-matrix Games with Intuitionistic Fuzzy Pay-offs*” in National Conference on “Optimization and Computational Mathematics” organized by the Department of Applied Mathematics with Oceanology and Computer Programming, **Vidyasagar University**, Midnapore, during 1-2 March, **2016**.
5. Presented a paper entitled “*Intuitionistic Fuzzy Optimization Technique to Solve Bi-matrix Games with Intuitionistic Fuzzy Goals*” in 2nd International Conference on “Recent Trends in Mathematics and its Applications” organized by the Department of Applied Mathematics with Oceanology and computer programming, **Vidyasagar University**, Midnapore, during 18-19th March, **2015**.
6. Presented a paper entitled “*An Approach for Solving Matrix games in Intuitionistic Fuzzy Environment*” in 5 days National Workshop on “Optimization and Fuzzy Mathematics” organized by the Department of Applied Mathematics with Oceanology and computer programming, **Vidyasagar University**, Midnapore, during 9-13th September, **2014**.
7. Presented a paper entitled “*A new Solution Concept of Intuitionistic Fuzzy Matrix Games*” in National Seminar on “Mathematics to Commemorate Sesquicentenary of Sir

Asutosh Mukherjee” organized by the Department of Mathematics, **Sidho-Kanho-Birsha University**, Purulia, held on 25th April, **2014**.

8. Presented a paper entitled “*Solving Matrix Games with Pay-offs Represented by Triangular Fuzzy Numbers*” in National Seminar on “Recent Aspects in Mathematics and their Applications” organized by the Department of Applied Mathematics with Oceanology and computer programming, **Vidyasagar University**, Midnapore, during 25-26th February, **2014**.
9. Presented a paper entitled “*Generalized Triangular Intuitionistic Fuzzy Numbers & Inequality Relations*” in 2nd International Conference on “Rough sets, Fuzzy Sets and Soft Computing” organized by the Department of Mathematics, **Tripura University**, Tripura, during 17-19th January, **2013**.
10. Presented a paper entitled “*Solving Matrix Games with Intuitionistic Fuzzy Goals*” in UGC sponsored Seminar on “Emerging Trends in Mathematics” organized by the Department of Applied Mathematics with Oceanology and computer programming, **Vidyasagar University**, Midnapore, during 19-20th December, **2012**.

