

Dr.Arijit Ghosh
Designation: Assistant Professor
Department of Mathematics
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Qualification:

M.Sc.in Applied Mathematics, M.B.A., M.Sc. in Applied Statistics and Analytics, P.G.D.A.S.T., GDOR,
Qualified CSIR UGC NET(JRF), Ph.D..

Dr. Arijit Ghosh is currently teaching in the Department of Mathematics at St. Xavier's College (Autonomous), Kolkata. He has received his Ph.D (Science) from Jadavpur University, Kolkata for his contribution in the field of Applied Mathematics (Optimization).His current research is focused on the application of optimization techniques in real life problems. Dr. Ghosh has been associated as an accomplished professor in St. Xavier's College (Autonomous),Kolkata for the last 18 years. At present he is guiding students for their Ph.D.. He served as a resource person in other reputed institutions such as The Institute of Chartered Accountants of India, Kolkata, The Army Institute of Management, Kolkata and JIS College of Engineering, Kalyani to name a few. He has published several research papers in various national and international peer reviewed refereed journals of repute and has participated and presented papers in various national and international conferences as well. He has supervised students in their Ph. D work. Apart from academic interests he has a keen fascination for various extra-curricular activities. He writes poems, plays harmonica and has exhibited photographs on various exhibitions.

Publications in peer reviewed, refereed national/international journal(2019-2026):-

1. A paper entitled "Selection of Best E-Rickshaw-A Green Energy Game Changer: An Application of AHP and TOPSIS Method" in Journal of Intelligent & Fuzzy Systems(ISSN 1064-1246, E ISSN 1875- 8967)(SCI IF : 1.851) Accepted on Mar 03, 2021.
2. A paper entitled "Factors affecting the shift of consumers towards e-pharmacies" in Sambodhi Vol-44 No.-01 (XXIII) January-March (2021). (UGC CARE List: ISSN: 2249-6661).
3. A paper entitled "Application of Fuzzy TOPSIS Algorithm for Selecting Best Family Car" in 2020 International Conference on Decision Aid Sciences and Applications(DASA) |978-1-7281- 9677-0/20/S31.00 (c)2020 IEEE| DOI:10.1109/DASA51403.2020.9317175.
4. A paper entitled "Application of Hexagonal Fuzzy MCDM Methodology for Site Selection of Electric Vehicle Charging Station" Mathematics 2021, 9(4), 393; <https://doi.org/10.3390/math9040393>.Published:16February2021.(SCIIF1.747)
5. A paper entitled "Identification of Dominant Risk Factor Involved in Spread of COVID-19 Using Hesitant Fuzzy MCDM Methodology". Results in Physics,103811. February 2021. (SCI IF 4.019)
6. A paper entitled "Comprehensive efficiency measurement of five major Indian steel companies using data envelopment analysis and factor analysis" Malaya Journal of Matematik,Vol.S, No. 1, 31-36, 2021.
[https://doi.org/10.26637/MJMS2101/0006.\(UGCCAREList.ISSN2319-3786,E-ISSN2321-5666\)](https://doi.org/10.26637/MJMS2101/0006.(UGCCAREList.ISSN2319-3786,E-ISSN2321-5666))
7. A paper entitled "IPL 2019: Evaluating the performance of teams by DEA & SEM" Malaya Journal of Matematik, Vol. S, No. 1, 41-45, 2021.
[https://doi.org/10.26637/MJMS2101/0008.\(UGCCAREListISSN2319-3786,E-ISSN2321-5666\)](https://doi.org/10.26637/MJMS2101/0008.(UGCCAREListISSN2319-3786,E-ISSN2321-5666))

8. A paper entitled "Performance evaluation & rankings of players in IPL 2019 by DEA & SEM" *Malaya Journal of Matematik*, Vol. 5, No. 1, 46-56, 2021. <https://doi.org/10.26637/MJMS2101/0009>. (UGC CARE List ISSN 2319-3786, E-ISSN 2321-5666).
9. A paper entitled "Exploring the influence of green marketing factors on purchasing decision making of urban youth: An empirical study in Kolkata" in *Wesleyan Journal of Research* , Vol.14 No.01(VI)(January 2021) (UGC CARE List. ISSN 0975-1386)
10. A paper entitled "AHP-TOPSIS Inspired Shopping Mall Site Selection Problem with Fuzzy Data". *Mathematics*, 8(8), 1380(2020).August 2020. (SCI IF 1.747)
11. A paper entitled "Efficiency Measurement of Public and Private Sector General Insurance Companies in India Using DEA" in *International Journal of Research and Analytical Reviews*, Special Issue, page 176-183, January 2019. (UGC CARE List ISSN 2349 – 5138, E - ISSN 2348 – 1269).
12. A paper entitled "Analyzing Efficiency of Indian Life Insurance Companies using DEA and SEM" in *International journal (Scopus) "Turkish Journal of Computer and Mathematics Education"* Vol.12 No.12 (2021), 3897-3919.
13. A paper entitled "Evaluation Of Performance for School Teacher Recruitment Using MCDM Techniques with Interval Data" in *International Journal(Scopus) "Multicultural Education"*, Volume 7, Issue 5, 2021.
14. A paper entitled "A Parametric Gray AHP Coupled TOPSIS Method for Optimal Mobile Selection: An Empirical Study for Different Market Segments" in *International Journal (included in ABDC journal quality list)"Empirical Economics Letters"*ISSN1681-8997 Volume 20 Special Issue 1 May 2021.
15. A paper entitled "Impact of COVID-19 on Individual Wellbeing: Insights from Selected Developing Countries" in *International Journal (included in ABDC journal quality list) "Empirical Economics Letters"* ISSN 1681-8997 Volume 20 Special Issue 1May 2021.
16. An exploratory analysis of the pivotal factor for Waste-to-Energy conversion systems by dense neutrosophic MCDM method, *Franklin Open*, 2026, 15(100594), pp: 1-21; <https://doi.org/10.1016/j.fraope.2026.100594>,(Scopus).
17. Site Selection for Solar Photovoltaic Power Plant Using MCDM Method with New De-i-Fuzzification Technique, *Analytics*, 2026, 5(1), pp: 1-42, <https://doi.org/10.3390/analytics5010010>,(Scopus).
18. Measuring most affected age group of women with respect to different psychological issues by uncertain MCDM methodology, *OPSEARCH*, 2026, pp: 1-48, <https://doi.org/10.1007/s12597-026-01088-z>,(ESCI, Impact Factor: 1.8).
19. Evaluation of Different Solar Technologies Through Multiple Parameters: A MCDM-based Study in Uncertain Environment, *International Scientific Spectrum*, 2026, 2(1), pp: 1-34.
20. Challenges of remote sensing for crucial role in all phases of disaster management: An uncertain MCDM-based study, *Journal of Engineering Management and Systems Engineering*, 2025, 5(1), pp: 10-32; <https://doi.org/10.56578/jemse050102>, (Scopus).

21. Selection of Optimal Sites for New Airport in Urban Areas: An Intuitionistic Fuzzy-based Decision Making Study, *Applied Research Advances*, 2025, 2(1), pp: 1-34; <https://doi.org/10.65069/ara2120262>
22. Finding Humanitarian Supply Chain Management Challenges using Uncertain MCDM Methodology; *Spectrum of Mechanical Engineering and Operational Research*, 2025, 2(1), 248-279; <https://doi.org/10.31181/smeor21202548>
23. Strategic Management of Wireless Communication Challenges: Data-Driven Analysis for Enhanced Efficiency and Scalability in Uncertain Environment; *Journal of Engineering Management and Systems Engineering*, 2025, 4(3), 161-175; <https://doi.org/10.56578/jemse040301>, (Scopus).
24. Performance evaluation of teachers by using fermatean fuzzy based MCDM approach, *Journal of Decisions and Operations Research*, 2025, 10(2), pp: 404-441; <https://doi.org/10.22105/dmor.2025.514490.1931>, (Scopus).
25. Study of the System of Uncertain Linear Differential Equations Under Neutrosophic Sense of Uncertainty; *Spectrum of Engineering and Management Sciences*, 2025, 3(1), 93-109; <https://doi.org/10.31181/sems31202536r>, (Scopus).
26. Challenges in the Adaptation of Biomass Energy in India: A Multi-Criteria Decision-Making Approach Using DEMATEL; *Acadlore Transactions on Applied Mathematics and Statistics*, 2024, 2(4), 222-237; <https://doi.org/10.56578/atams020403>
27. Ranking and Challenges of Supply Chain Companies Using MCDM Methodology; *Logistics*, 2024, 8(3), 1-32, <https://doi.org/10.3390/logistics8030087>, (ESCI, Impact Factor: 3.6).
28. A Decision-Making Framework for Sustainable Highway Restaurant Site Selection: AHP-TOPSIS Approach based on the Fuzzy Numbers; *Spectrum of Operational Research*, 2024, 2(1), pp: 1-23, <https://doi.org/10.31181/sor2120256>.
29. Synergistic Strategy of Sustainable Hospital Site Selection in Saudi Arabia Using Spherical Fuzzy MCDM Methodology; *Journal of Uncertain Systems*, 2024, 17(3), pp: 1-64, <https://doi.org/10.1142/S1752890924500041>, (Scopus).
30. A Brief Analysis and Interpretation on Arithmetic Operations of Fuzzy Numbers; A Brief Analysis and Interpretation on Arithmetic Operations of Fuzzy Numbers; *Results in Control and Optimization*, 2023, 13(100312), pp: 1-42, <https://doi.org/10.1016/j.rico.2023.100312>, (ESCI, Impact Factor: 2.56).
31. A new synergistic strategy for ranking restaurant locations: A decision-making approach based on the hexagonal fuzzy numbers; *RAIRO - Operations Research*, 2023, 57(2), pp: 571-608, <https://doi.org/10.1051/ro/2023025>, (SCIE, Impact Factor: 1.8).
32. Optimal Site Selection for Women University Using Neutrosophic Multi-Criteria Decision Making Approach; *Buildings*, MDPI, 2023, 13(1), 152, pp: 1-36, <https://doi.org/10.3390/buildings13010152>, (SCIE, Impact Factor: 3.8).

Research awards(2019-2026):

- Received “Editor’s Choice Paper” certificate for “AHP-TOPSIS Inspired Shopping Mall Site Selection Problem with Fuzzy Data” Mathematics 2020, 8(8), 1380 from the editor of Mathematics (SCI IF 1.747).
- Received “Best research paper” award for the track “Interdisciplinary Applications of Operations Research” at the International Conference on “Frontiers of Operations Research & Business Studies” held on 27-28 December 2019 organized by the Calcutta Business School, Kolkata in partnership with Operations Research Society of India, Durgapur Chapter.
- Received “Best research paper” award at the International Conference on Society and Business in the New Millennium” held on 12-13 April 2019 organized by the ICFAI Business School, Kolkata in partnership with Lincoln University College, Malaysia.
- Received “Best research paper” of “Finance Management” award at the International Conference on “ Emerging Socio Economic Trends and Business Strategy” held on 18-19 January 2019 organized by the International School of Business & Media, Kolkata in partnership with Indian Economic Association sponsored by Indian Council for Social Science Research.

Research paper presented at international conference (2019-26):-

- Presented a paper entitled “Assessing the Impact of Covid-19 outbreak: Lessons from India and Bangladesh”, 4th International Conference on Management & Business Practices (ICMBP) - 2021, organized by Aliah University, Kolkata 8-9 Feb, 2021.
- Presented a paper entitled “Purchase Decision Making of Baby Food Products among Young Mothers: An Exploratory Study” at 4th International Conference on Management & Business Practices (ICMBP) - 2021, organized by Aliah University, Kolkata 8-9 Feb, 2021
- Presented a paper entitled "Application of Fuzzy TOPSIS Algorithm for Selecting Best Family Car," International Conference on Decision Aid Sciences and Application (DASA), organized by University of Bahrain, 8-9 Nov, 2020.
- Presented a paper entitled “Comprehensive Efficiency Measurement of five major Indian Steel Companies using Data Envelopment Analysis and Factor Analysis” at the International Conference on “Emerging Socio Economic Trends and Business Strategy” held on 24-25 January 2020 organized by the International School of Business & Media, Kolkata in partnership with Indian Economic Association.
- Presented a paper entitled “IPL 2019: Evaluating the performance of teams by DEA & SEM” at the International Conference on “Emerging Socio Economic Trends and Business Strategy” held on 24-25 January 2020 organized by the International School of Business & Media, Kolkata in partnership with Indian Economic Association..
- Presented a paper entitled “IPL 2019: Ranking of Batsmen by Linear Programming & Structural Equation Modeling” at the International Conference on “Physical Education Yoga and Sports Science in 2020’s era” held on 15 January, 2020 organized by the SIPEWHH, Kolkata in partnership with West Bengal Committee of the Institute of Physical Education.
- Presented a paper entitled “Analyzing Technical Efficiency of Indian Life Insurance Companies using DEA and SEM” at the International Conference on “Frontiers of Operations Research & Business Studies” held on 27-28 December’ 2019 organized by the Calcutta Business School, Kolkata in partnership with Operations Research Society of India, Durgapur Chapter.
- Presented a paper entitled “ Lucas Paradox in Asia: An empirical Investigation” at the International Conference on “Society and Business in the New Millennium” held on 12- 13 April 2019 organized by the ICFAI Business School, Kolkata in partnership with Lincoln University College.

- Presented a paper entitled “Efficiency Measurement of Public and Private Sector General Insurance Companies in India Using DEA” at the International Conference on “Emerging Socio Economic Trends and Business Strategy” held on 18-19 January 2019 organized by the International School of Business & Media, Kolkata in partnership with Indian Economic Association sponsored by Indian Council for Social Science Research.

Membership of academic/research/professional bodies:-

- Life member of Indian Statistical Institute.
- Life member of Operational Research Society of India.
- Life member of Calcutta Mathematical Society.