

CURRICULAM VITAE OF DR AJOY KANTI DAS



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Present: Associate Professor, Dept. of Mathematics, Tripura University, Suryamaninagar, Agartala-799022, Tripura, India.

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Education:

2010–2016: Ph.D in Mathematics, Tripura University, Agartala, India.

2008–2010: Master in Mathematics, Tripura University, Agartala, India.

2005–2008: Bachelor of Science, Ramkrishna Mahavidyalaya, Agartala, India.

2003–2005: H.S(+2), Science, Fatikroy Class XII School, Fatikroy, Tripura, India.

2098–2003: Class VI- Madhyamik, Fatikroy Class XII School, Fatikroy, Tripura, India.

1992–1998: Class I-Class V, Fatikroy Girls School, Fatikroy, Tripura, India.

Ph.D Thesis:

Title: *Intuitionistic fuzzy rough relations and its generalization, topological structures formed by soft multisets and interval valued intuitionistic fuzzy soft sets.*

(Degree awarded-09.11.2016)

Ph.D Supervisors: *Prof. A. Mukherjee (Retired), Department of Mathematics, Tripura University, Agartala, Tripura, India.*

Experience:

21st December, 2023–onwards: *Associate Professor, Tripura University, Agartala, Tripura, India.*

01.12.2017–20.12.2023: *Assistant Professor, Bir Bikram Memorial College, Agartala, Tripura, India.*

23.11.2012–30.11.2017: *Assistant Professor, Iswar Chandra Vidyasagar College, Belonia, Tripura, India.*

Recent Field of interests:

Soft set and Decision-making, Sequence space, Fuzzy set, Topology

Scholarship/Award/Recognitions:

- 1. Secured 1st class 1st position in M.Sc Mathematics (2010), Tripura University.*
- 2. Secured 1st class 1st position in B.Sc Mathematics (2008), Tripura University.*
- 3. CSIR-UGC (UGC-JRF) NET-JUNE-2009 (All India Rank-289)*
- 4. CSIR-UGC (CSIR-JRF) NET-JUNE-2012 (All India Rank -99)*
- 5. DST-INSPIRE Fellowship-2010*
- 6. UGC SLET-2012*
- 7. MHRD GATE-2012 (All India Rank 299)*

PUBLISHED PAPERS/BOOK CHAPTERS/BOOKS:

1. Das, A.K., Weighted fuzzy soft multi set and decision making, *International Journal of Machine Learning and Cybernetics (Springer)*, 9, 787-794 (2016) **(SCIE, SCOPUS)**
2. Das, A.K., On partially included intuitionistic fuzzy rough relations, *Afrika Matematika (Springer)*, 27, 993-1001 (2016) **(SCIE, SCOPUS)**
3. Granados, C., & Das, A.K. (2023) Tauberian conditions under which convergence follows from Cesáro summability of triple integrals over R^{3+} , *The Journal of Analysis (Springer)*, 31, 1951–1985. **(SCIE, SCOPUS)**
4. Granados, C., Das, A.K. & Osu, Bright. O. (2021) $M_{\lambda m, n, p}$ -Statistical convergence for triple sequences, *The Journal of Analysis (Springer)*, 30, 451–468. **(SCIE, SCOPUS)**
5. Granados, C., & Das, A.K. (2022) New Tauberian theorem for statistical Cesáro summability of function of three variables over a locally convex space, *Armenian Journal of Mathematics*, 14(5), 1-15. **(SCIE, SCOPUS)**
6. Mukherjee, A. & Das, A.K. (2018) Einstein operations on fuzzy soft multisets and decision making, *Boletim da Sociedade Paranaense de Matematica*, 40, 1-10, **(ESCI, SCOPUS)**
7. Das, A.K., Granados, C. (2022) IFP-intuitionistic multi fuzzy N-soft set and its induced IFP-hesitant N-soft set in decision-making, *Journal of Ambient Intelligence and Humanized Computing (Springer)*, 14, 10143–10152. **(SCOPUS)**
8. Das, A.K., & Granados, C. (2021) An advanced approach to fuzzy soft group decision-making using weighted average ratings, *SN Computer Science (Springer)*, 2: 471, **(SCOPUS)**
9. Das, A.K., & Granados, C. (2022) FP-intuitionistic multi fuzzy N-soft set and its induced IFP-hesitant N-soft set in group decision-making, *Decision making: Applications in Management and Engineerig*, 5(1):67-89, **(SCOPUS)**
10. Das, A.K., Granados, C. (2023) Preference intuitionistic fuzzy rough relation and its theoretical approach, *Journal of the Indian Mathematical Society*, 90(3-4):199-212, **(SCOPUS)**

11. **Das, A.K.,** & Granados, C. (2022). A new fuzzy parameterized intuitionistic fuzzy soft multiset theory and group decision-making. *Journal of Current Science and Technology*, 12(3), 547-567. **(SCOPUS)**
12. **Das, A.K.,** Granados, C. & Bhattacharya, J. (2022). Some new operations on fuzzy soft sets and their applications in decision-making. *Songklanakarin Journal of Science and Technology*, 44(2): 440-449, **(SCOPUS)**
13. **Das, A.K.,** Gupta, N. & Granados, C. (2023). Weighted hesitant bipolar-valued fuzzy soft set in decision-making. *Songklanakarin Journal of Science and Technology*, 45(6):681-690, **(SCOPUS)**
14. Mukherjee, A. and **Das, A.K.,** (2016). Topological structure formed by intuitionistic fuzzy rough relations, *Journal of the Indian Mathematical Society*, 83(1-2):135-144, **(SCOPUS)**
15. Granados, C., & **Das, A.K.** (2022) A generalization of triple statistical convergence in topological groups, *International Journal of Applied Mathematics*, 35(1), 57-62. **(SCOPUS)**
16. Granados, C., **Das, A.K.** & Das, B. (2022). Some continuous neutrosophic distributions with neutrosophic parameters based on neutrosophic random variables. *Advances in the Theory of Nonlinear Analysis and its Applications*, 33(2) 293-308. **(SCOPUS)**
17. Granados, C., **Das, A.K.** & Osu, Bright. (2023). Weighted neutrosophic soft multiset and its application to decision making. *Yugoslav journal of operations research*, 33(2) 293-308. **(SCOPUS)**
18. Granados, C., **Das, A.K.** & Das, S. (2021) New Tauberian theorem for statistical Cesáro summable triple sequences of fuzzy numbers, *Kargujevac Journal of Mathematics*, 48(5), 787-802. **(SCOPUS)**
19. Mukherjee, A. & **Das, A.K.** (2015) Relations on intuitionistic fuzzy soft multi sets, Information Science and Applications, *Lecture Notes in Electrical Engineering (Springer)*, 339, 607-614. **(SCOPUS)**

20. Mukherjee, A. & Das, A.K. Application of fuzzy soft multi sets in decision making problems, *Smart Innovation Systems and Technologies, Springer*, 43(1) (2015), 21-28. **(SCOPUS)**
21. Mukherjee, A. & Das, A.K. (2015) Application of interval valued intuitionistic fuzzy soft set in investment decision making, Proceeding of **IEEE-Fifth International Conference on Advances in Computing and Communications**, *IEEE Xplore Digital Library*, 61-64. **(SCOPUS)**
22. Mukherjee, A. & A.K. Das, Interval valued intuitionistic fuzzy soft multi set theoretic approach to decision making problems, Proceeding of **IEEE-International Conference on Computer, Communication and Control**, *IEEE Xplore Digital Library*, (2015) **(SCOPUS)**
23. Mukherjee, A. & Das, A.K. (2013) Topological structure formed by fuzzy soft multi sets, *Bulletin of Calcutta Mathematical Society*, 21(2) 193-212 **(UGC-CARE List)**
24. Das, A.K., & Granados, C. (2022). Interval-valued fuzzy parameterized multi fuzzy n-soft set in decision-making. In: Mukherjee, S., Muppalaneni, N.B., Bhattacharya, S., Pradhan, A.K. (eds) Intelligent Systems for Social Good. *Advanced Technologies and Societal Change. Springer, Singapore*, 139-149.
25. Das, A.K., & Granados, C. (2022). An innovative approach to fuzzy soft set based investment framework using machine learning algorithm, In: Mukherjee, S., Muppalaneni, N.B., Bhattacharya, S., Pradhan, A.K. (eds) Intelligent Systems for Social Good. *Advanced Technologies and Societal Change. Springer, Singapore*, 151-159.
26. Mukherjee, A. & Das, A.K. (2016). Sequences, Nets and Filters of Fuzzy Soft Multi Sets in Fuzzy Soft Multi Topological Spaces, *IGI Global-international academic publisher, United States*.
27. Das, A.K., & Gupta. N. (2022). An Advanced Approach to HFP-Soft Set Based Decision- Making in Uncertain Environment. *Journal of Artificial Intelligence, Machine Learning and Neural Network*, 2(02), 24–39.

28. Mukherjee, A. & **Das, A.K.** (2016) Results on intuitionistic fuzzy soft multi sets and its application in information system, *Journal of New Theory*, 10, 66-75
29. Mukherjee, A. & **Das, A.K.** (2016) Notes on interval valued intuitionistic fuzzy rough relations and their properties, *The Journal of Fuzzy Mathematics (International Fuzzy Mathematics Institute)*, 24(3), 583-592.
30. **Das, A.K.** (2015) Fuzzy soft multi relation and its properties, *International Journal of Computer Science: Theory and Application*, 4(2), (2015) 47-53.
31. Mukherjee, A. & **Das, A.K.** (2015). A novel approach to interval-valued intuitionistic fuzzy soft multi sets based decision making, *Int. J. Open Problems in Computer Sci. Math.*, 8(3), 12-28.
32. Mukherjee, A., **Das, A.K.** & Saha, A. (2015) Sequence in intuitionistic fuzzy soft multi topological spaces, *New Trends in Mathematical Sciences: An International Journal*, 3(3), 184-191.
33. Mukherjee, A. & **Das, A.K.** (2015). An application for decision making based on interval-valued intuitionistic fuzzy soft multi sets, *International Journal of Information Processing*, 9(2), 84-92
34. Mukherjee, A. & **Das, A.K.** (2015). Some results on fuzzy soft multi sets, *International Journal on Cybernetics & Informatics*, 4(1), 51-65.
35. Mukherjee, A. & **Das, A.K.** & Saha, A. (2015). More on interval-valued intuitionistic fuzzy soft multi sets, *Advances in Vision Computing: An International Journal*, 2(2), 1-21.
36. Mukherjee, A. & **Das, A.K.** (2015). On Fuzzy Soft Multi Set and Its Application in Information Systems, *International Journal of Computer-aided Technologies*, 2, 29-46
37. Mukherjee, A. & **Das, A.K.** (2015). Fundamental theory of sequences in intuitionistic fuzzy soft topological space, *Int. J. Advanced Research in Engineering and Appl. Sci.*, 4(6), 40-48

38. Mukherjee, A., **Das, A.K.** & Saha, A. (2013). Interval valued intuitionistic fuzzy soft topological spaces, *Annals of Fuzzy Mathematics and Informatics*, 6(3), 689-703.
39. Mukherjee, A. & **Das, A.K.** (2014). Interval valued intuitionistic fuzzy soft set relations, Anjan Mukherjee, *Annals of Fuzzy Mathematics and Informatics*, 7(4), 563-577.
40. Mukherjee, A. & **Das, A.K.** (2013). Interval valued intuitionistic fuzzy soft multisets and their relations, Anjan Mukherjee, *Annals of Fuzzy Mathematics and Informatics*, 6(3), 781-798
41. Mukherjee, A., **Das, A.K.** & Saha, A. (2013). Topological structure formed by soft multi sets and soft multi compact space, *Annals of Fuzzy Mathematics and Informatics*, 7(6), 919-933
42. Mukherjee, A., Saha, A. & **Das, A.K.** (2015). Soft sets combined with interval valued intuitionistic fuzzy sets of type-2 and rough sets, *New Trends in Mathematical Sciences: An International Journal*, 3(2), 199-218
43. Mukherjee, A. & **Das, A.K.** (2013). Intuitionistic fuzzy rough relations, *Annals of Fuzzy Mathematics and Informatics*, 6(1), 115-126
44. Mukherjee, A., Saha, A. & **Das, A.K.** (2015). Measurable soft sets, *Int. J. Open Problems Compt. Math.*, 8(4), 13-26.
45. Mukherjee, A. & **Das, A.K.** (2015). Theory of dense sets in intuitionistic fuzzy soft topological space, *Bulletin of Kerala Mathematics Association*, 12(1), 87-95.
46. Mukherjee, A. & **Das, A.K.** (2015). On intuitionistic fuzzy soft multi relations, *International journal of Computer Science & Network Solutions*, 3(6), 10-17.
47. Mukherjee, A. & **Das, A.K.** (2015). Operation on intuitionistic fuzzy soft multi sets, *Proceeding of 2015-International Conference on Frontiers in Mathematics*, Gauhati University, 4-8.

Published Book:

1. Mukherjee, A. & Das, A.K. (2023). Essentials of fuzzy soft multisets: Theory and applications, *Springer Nature Singapore Pte Ltd.*, 1-151.

LIST OF INTERNATIONAL/NATIONAL CONFERENCES PARTICIPATED & PRESENTED PAPERS

1. *IEEE-Fifth International Conference on Advances in Computing and Communications*, 3-5 September 2015, Organized by IEEE and RSET, **Kochi, Kerala**.
2. *2nd International Conference on Recent Trends in Mathematics and Its Applications*, 18th-19th March, 2015 Organized by Department of Applied Mathematics with Oceanology and Computer Pogramming, **Vidyasa University, West Bengal**, India.
3. *International Conference on Frontiers in Mathematics*, 26-28, March, 2015, Organized by Department of Mathematics, **Gauhati University, Assam**, India.
4. *2nd International Conference on Rough Sets, Fuzzy Sets and Soft Computing*, January 17th-19th, 2013, Organized by Department of Mathematics, **Tripura University, Tripura**, India.
5. *5-Day National Workshop on Optimization and Fuzzy Mathematics*, September 9-13, 2014, Organized by Department of Applied Mathematics with Oceanology and Computer Pogramming, **Vidyasa University, West Bengal**, India.
6. *National Conference on Trends in Mathematical Science Research*, September 5-6, 2014, Organized by Department of Mathematics, **Assam University, Assam**, India.
7. *1st Tripura Science Congress*, September 8-9, 2011, Organized by the Tripura State Council for Science and Technology, **Tripura University**, Government of Tripura, **Tripura**, India.
8. *National Conference on Mathematical Analysis and Its Applications*, January 5-6, 2011, Organized by the Department Of Mathematics, **Tripura University, Tripura**, India.

9. *National Seminar on Role of Science and Technology in Building a Sustainable Future: Global Perspective*, November 17-18, 2023, Organized by Internal Quality Assurance Cell (IQAC), **Bir Bikram Memorial College, Agartala**, Tripura, India.

INTERNATIONAL/NATIONAL CONFERENCES/WORKSHOPS ONLY **PARTICIPATED**

1. **International conference on Rough sets, Fuzzy sets and Soft Computing**, November 5-7, 2009, Organized by Department of Mathematics, **Tripura University**, Tripura, India in collaboration with IRSS and ISFUMIP.
2. **Seminar on Rough sets, Fuzzy sets and Their Applications**, April 7, 2010, Organized by Department of Mathematics, **Tripura University**, Tripura, India.
3. **Workshop on Advances in Pattern Analysis and Applications**, March 5–9, 2012, Organized Jointly by CVPRU, ISI, Kolkata and Department of Electronics and Communication Engg., **Mizoram University, Mizoram**, India.
4. **Workshop on Rough Set and Its Applications**, November 16–17, 2012, Organized Jointly by Department of Mathematics, **Tripura University** and by FRSA.
5. **National Workshop Recent Advances on Applied Mathematics**, 20th-21st, September, 2014, Organized by Department of Mathematics, **NIT, Tripura**, India.
6. **North-East Summer Workshop in Analysis and Probability 2015**, June 27-30, 2015, Organized by Department of Mathematics, **Tripura University**, in collaboration with ISI, Bangalore.
7. UGC-HRDC sponsored 64th **Orientation programme** from 6th February 2017 to 4th March 2017 at **Jadavpur University, Kolkata**.
8. SWAYAM-ARPIT online UGC-HRDC **Refresher course** on Teacher and Teaching in Higher held on 16-02-2020
9. Two weeks UGC-HRDC **Refresher course** held on 15-28 March, 2021 at **Tripura University**.

10. Two weeks UGC-HRDC **Refresher course** on “E-Learning and E-Governance” held on 28th March, 2023 to 10th April, 2023 at **University of Allahabad**.
11. One-week AICTE Training and Learning **Faculty Development Programme** on Cyber Security from 7-11 September, 2020 at **Hyderabad Institute of Technology and Management**.
12. One-week AICTE Training and Learning **Faculty Development Programme** on Artificial Intelligence from 14-18 September, 2020 at **Srinivasa Ramanujan Centre, SASTRA Deemed to be University**