

## CURRICULUM-VITAE

### Dr. Satyajit Das

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### TEACHING INTERESTS

Optimization, Differential Equations, Operations Research, Fuzzy Set Theory, Numerical Analysis

### EDUCATION

QUALIFICATION	INSTITUTION	BOARD/UNIVERSITY
<b>Ph.D.</b> in Mathematics (2012-2017)	Indian Institute of Technology Patna, India	IIT Patna, India
<b>M.Sc.</b> in Mathematics with Computer Applications (2010-2012)	National Institute of Technology Durgapur, India	NIT Durgapur, India
<b>B.Sc.</b> in Mathematics (Hons.) (2007-2010)	Bajkul Milani Mahavidyalaya	Vidyasagar University
<b>Higher Secondary</b> (10+2, Pure Science) (2005-2007)	Kajlagarh M.S.B.C.M. High School	WBCHSE
<b>Madhyamik</b> (10 <sup>th</sup> ) 2005	Tentulbari Jatindra Narayan Vidyamandir	WBBSE

### AWARDS/PRIZES/RANK

- **Senior Research Fellowship (SRF)** in Mathematical Sciences from Ministry of Human Resource Development (MHRD), India (August 2014–July2017).
- **Junior Research Fellowship (JRF)** in Mathematical Sciences from Ministry of Human Resource Development (MHRD), India (July 2012–July2014).
- **High Value PhD Fellowship** in Mathematical Sciences from IIT Patna, India (2014).

- **First class First in M.Sc., National Institute of Technology Durgapur, India.**
- **Received Travel Grant from European Society for Fuzzy Logic and Technology to attend 2nd European Summer School on Fuzzy Logic and Applications (SFLA 2016), August 14 - 19, 2016 at Czech Republic.**
- **Qualified GATE 2012 in Mathematics.**
- **Qualified WB SET 2023 in Mathematics.**
- **Merit-Cum Means Scholarship in Mathematical Sciences from West Bengal Higher Education Fund (2007-2012).**

### TEACHING EXPERIENCE:

Sl No.	Institute/University	Joining Date	Leaving Date
1	<b>Adamas University, Kolkata</b>	February, 2018	Till Date
2	<b>Siddhant College of Engineering, Sudumbare, Pune.</b>	July 2017	February, 2018

### LIST OF PUBLICATIONS IN JOURNALS:

S.No	Name of the authors	Title of the papers	Journal Name	Year vol. (Issue) page.
1	<b>Satyajit Das,</b> Debashree Guha, Radko Mesiar	Extended Bonferroni Mean under Intuitionistic Fuzzy Environment Based on a Strict t-conorm	IEEE Transactions on Systems, Man, and Cybernetics: Systems	47(8) 2017 2083-2099 DOI: 10.1109/TSMC.2016.2610001
2	<b>Satyajit Das,</b> Debashree Guha, Radko Mesiar	Information measures in the intuitionistic fuzzy framework and their relationships	<b>IEEE Transactions on Fuzzy Systems</b>	26(3) 2018 1626-1637 DOI:10.1109/TFUZZ.2017.2738603
3	Bapi Dutta, José Rui Figueira, <b>Satyajit Das</b>	On the orness of Bonferroni mean and its variants	<b>International Journal of Intelligent Systems</b>	34 (8), 1889-1919, 2019 DOI: 10.1002/int.22124,

4	<b>Satyajit Das,</b> Debashree Guha	Attribute weight computation in a decision making problem by particle swarm optimization	<b>Neural Computing and Applications</b>	31(7), 2495-2505, 2019 DOI: <a href="https://doi.org/10.1007/s00521-017-3209-z">10.1007/s00521-017-3209-z</a>
5	<b>Satyajit Das,</b> Debashree Guha, Bapi Dutta	Medical diagnosis with the aid of using fuzzy logic and intuitionistic fuzzy logic	<b>Applied Intelligence</b>	45(3), 2016, 850–867 DOI: <a href="https://doi.org/10.1007/s10489-016-0792-0">10.1007/s10489-016-0792-0</a>
6	<b>Satyajit Das,</b> Bapi Dutta, Debashree Guha	Weight computation of criteria in a decision making problem by knowledge measure with intuitionistic fuzzy set and interval-valued intuitionistic fuzzy set	<b>Soft Computing</b>	20(9), 2016, 3421–3442 DOI: <a href="https://doi.org/10.1007/s00500-015-1813-3">10.1007/s00500-015-1813-3</a>
7	<b>Satyajit Das,</b> Debashree Guha	Power harmonic aggregation operator with trapezoidal intuitionistic fuzzy numbers for solving MAGDM problems	<b>Iranian Journal of Fuzzy Systems</b>	12(6), 2015, 41-74, DOI: <a href="https://doi.org/10.22111/IJFS.2015.2179">10.22111/IJFS.2015.2179</a>
8	Pramit Biswas, <b>Satyajit Das,</b> Debashree Guha, Aneek Adhya	Wavelength-routed optical backbone network planning under fuzzy environment	<b>Optical and Quantum Electronics</b>	54(1) 1-17, 2022, DOI: <a href="https://doi.org/10.1007/s11082-021-03400-1">10.1007/s11082-021-03400-1</a> , 2022
9	<b>Satyajit Das,</b> Debashree Guha	Family of harmonic aggregation operators under intuitionistic fuzzy environment	<b>Scientia Iranica Transactions E: Industrial Engineering</b>	24(6), 3308-3323, 2017, doi: <a href="https://doi.org/10.24200/sci.2017.4400">10.24200/sci.2017.4400</a>
10	<b>Satyajit Das,</b> Debashree Guha	A Centroid-based Ranking Method of Trapezoidal Intuitionistic Fuzzy Numbers and Its Application to MCDM Problems	<b>Fuzzy Information and Engineering</b>	8(1) 2016, 41-74, DOI: <a href="https://doi.org/10.1016/j.fiae.2016.03.004">10.1016/j.fiae.2016.03.004</a>
11	<b>Satyajit Das,</b> Debashree Guha	Similarity measure of intuitionistic fuzzy number and its application to clustering	<b>Int. J. Math. in Operational research</b>	10(4) 399-430 2017, DOI: <a href="https://doi.org/10.1504/IJMOR.2017.084157">10.1504/IJMOR.2017.084157</a>
12	<b>Satyajit Das,</b> Amrita De	Weight Computation of Criteria in a Decision Making Problem by Entropy Measure Under Interval-Valued Fuzzy Environment	<b>Int. J. Math. in Operational research</b>	24 (2), 2023, 194-209 DOI: <a href="https://doi.org/10.1504/IJMOR.2021.10046639">10.1504/IJMOR.2021.10046639</a>

### Book Chapters & CONFERENCE PROCEEDINGS:

S.N.	Name of the authors	Title of the papers	Book Name	Vol., page, Year.
1.	<b>Satyajit Das,</b> Debashree Guha	Similarity measure of intuitionistic fuzzy number by centroid point	Mathematics and computing 2013 <b>(Springer)</b>	91, 231-242, 2014, DOI: 10.1007/978-81-322-1952-1_15
2.	<b>Satyajit Das,</b> Debashree Guha	Weight computation of alternatives in a decision making problem by preference relation	Proceedings of Fourth International Conference on Soft Computing for Problem Solving.  Book Series: <u>Advances in Intelligent Systems and Computing</u> <b>(Springer)</b>	336, 25-36, 2015, DOI: 10.1007/978-81-322-2220-0_3
3	Santanu Biswas, Humaira Aslam, <b>Satyajit Das,</b> Aditya Ghosh	Chaotic Behavior in a Novel Fractional Order System with No Equilibria	In: Banerjee, S., Saha, A. (eds) Nonlinear Dynamics and Applications. Springer Proceedings in Complexity. Springer, Cham.	PP- 1081–1092, 2022 , DOI: 10.1007/978-3-030-99792-2_91
4.	<b>Satyajit Das,</b> Bapi Dutta, Debashree Guha	Weight Computation of Criteria in a Decision Making Problem by Knowledge Measure	IEEE proceeding of 2014 International Conference on Soft Computing & Machine Intelligence	DOI: 10.1109/ISCM I.2014.26, pp-88-93, 2014

### PARTICIPATIONS IN CONFERENCES/ WORKSHOP/SEMINAR:

- Presented and Participated the summer school entitled, “**2nd European Summer School on Fuzzy Logic and Applications (SFLA 2016)**” held from August 14 - 19, 2016, Celadenka, Czech Republic.
- Participated the workshop entitled, “**National Workshop on Optimization Techniques for Solving Engineering and Management Problems(OTSEMP 2016)**”, held from March 02-06, 2016, IITDM Jabalpur, India.
- Presented a paper entitled, “Weight Computation of Criteria in a Decision Making Problem by Knowledge Measure” in **International Conference on Soft Computing & Machine Intelligence (ISCM)**, September 26-27, 2014, New Delhi, India.
- Presented a paper entitled, “Weight computation of alternatives in a decision making problem by preference relation” in **International Conference on Soft Computing for Problem Solving (SOCPROS’ 2014)**, 27-29 Dec 2014, NIT Silchar, Assam, India.

- Presented an **invited talk in a seminar** entitled “Modern trends on Mathematical Application in Mathematics, Physics, Chemistry, Bio-science and Other System”, March 21-22, 2014, Bajkul Milani Mahavidyalaya, West Bengal.
- Participated the workshop entitled, “**National Workshop on Advance Algorithm and Optimization (AAO 2014)**”, held from September 15-19, 2014, Department of Mathematics, NIT Durgapur, India.
- Presented a paper entitled, “Ranking of intuitionistic fuzzy number by the centroid point” in **International Conference on Fuzzy Information and Engineering (ICFIE 2013)**, June 22-23, 2013, Kanyakumari, India.
- Presented a paper entitled, “Similarity measure of intuitionistic fuzzy number by the centroid point” in **International Conference on Mathematics and Computing (ICMC 2013)**, Dec .27-29, 2013, Haldia Institute of Technology, India.
- Presented a paper entitled, “Capacity planning for wavelength-routed optical backbone network under imprecise environment” in **International Conference on facets of uncertainties and applications (ICFUA 2013)**, Dec. 05-07, 2013, Kolkata, India

#### PHD/PROJECT GUIDANCE:

Sl. No	UG/PG/ PhD	Title of Thesis/Project	Name of Students	Name of Co-Supervisor	Remarks/ Status
1	PhD	Application of impulsive differential equations in Ecology and Epidemiology	Humaira Aslam (PHD/05/PHDMATH/ 2019/002)	Dr. Santanu Biswas	Synopsis seminar completed
2	PG	Note on some medical diagnosis methods under imprecise environment	Anirban Das (PG/05/MSMATH/ 2017/001)	–	Completed 2019
3	PG	Determining Weights of Criteria in a Decision Making Problem by Entropy Measure	Amrita De (PG/05/MSCMATH/ 2018/002)	-	Completed 2020

4	PG	An approach to solve linear programming problem by using fuzzy number	Priyanka Kumari (PG/05/MSCMATH/ 2018/003)	-	Completed 2020
5	UG	A note on particle swarm optimization	Richa Roy (UG/05/BSMATH/ 2018/012)	-	Completed 2021
6	UG	A note on particle swarm optimization	Kunal Kanti Maity (UGPG/05/BSC+MSC(MATHC)/ 2018/001)	-	Completed 2021
7.	PG	An Extension of Multi-criteria Group Decision Making Process Based on the Fermatean Fuzzy Sets	Arpita Biswas (PG/05/MSCMATH/2020/003)	-	Completed 2022
8	PG	On Time series Analysis	Debanjan Nayak (PG/05/MSTSTDS/2023/007)	Mr. Anirban Maity	Ongoing
9	UG	Pythagorean Fuzzy Set and its application in disease recognition	Anupama Biswas (UG/05/BSMATH/2005/006)		Ongoing
10.	UG	Fermatean fuzzy set and its application in career placements	Misha Chowdhury (UG/05/BSMATH/2005/007)		Ongoing

**FDP/SHORT TERM COURSE (ATTENDED/STUDIED):**

SL	FDP Title	University	Date of Completion	Course Duration	Type
1	Open Book Examination Question Paper Setting	Adamas University	27 <sup>th</sup> -30 <sup>th</sup> Jan, 2021	4 days	<b>FDP</b>
2	Data Analytics for Basic and Applied Sciences	Adamas University	14 <sup>th</sup> -20 <sup>th</sup> June, 2021	7 days	<b>FDP</b>

3	NAAC Accreditation Framework: An Overview in respect of New Guidelines	SAGE University Indore, Christian Eminent Academy of Professional Studies Indore, Research Foundation of India & JHERF	<b>17 Aug-25 Aug 2021</b>	9 days	<b>FDP</b>
4	Research Methodology and Tools	Department of CSE, ABES Engineering College, Ghaziabad	22 <sup>nd</sup> - 26 <sup>th</sup> August 2022	5 Days	<b>FDP</b>
5	Mathematics and Computing	ICFAI University Tripura	17 <sup>th</sup> -21 <sup>st</sup> July 2023	5 Days	<b>FDP</b>
6	Research Insights for Academic Excellence	KPR College of Arts Science and Research, Coimbatore	3 <sup>rd</sup> -9 <sup>th</sup> August 2023	7 Days	<b>FDP</b>
7	International Faculty Development Programme on Applied Mathematics in Engineering and Technology	Department of Mathematics, SRM TRP Engineering College, Tiruchirappalli, Tamilnadu	20 <sup>th</sup> -27 <sup>th</sup> March 2024	7 Days	<b>FDP</b>
8	NEP 2020 Orientation and Sensitization Programme	IIT (ISM) Dhanbad	18 <sup>th</sup> -30 <sup>th</sup> December, 2023	13 days	<b>Orientation</b>
9	Scientific Software	The Assam Kaziranga University	12 <sup>th</sup> -18 <sup>th</sup> July, 2024	7 Days	<b>FDP</b>

### **MEMBER OF PROFESSIONAL BODIES**

- Life Member: Operational Research Society of India (ORSI) (2014-To date)
- Student Member: EUSFLAT (2016)
- Student Member: IEEE (2014-2016)
- Student Member: Soft Computing Research Society (SCRS) (2014-2015)
- Member-International Society on MCDM

### **REVIEWER**

- International Journal of Fuzzy System
- Soft Computing
- International Transactions in Operational Research
- IEEE Transactions on Fuzzy Systems
- Scientific Report