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- **Educational Qualification:** M. Sc., Ph. D., Post Doc. (Hanyang University, Ansan, South Korea)
- **Address:**  
 Department of Mathematics, Tamralipta Mahavidyalaya, Tamluk, Purba Medinipur, 721636, West Bengal, India.
- **Teaching Experience:** Assistant Professor at Indian Institute of Information Technology (July, 2016-March, 2017). Assistant Professor at Tamralipta Mahavidyalaya since 23th March 2017.
- **Area of specializations:** Discrete and Applied Mathematics
- **Current Research Area:** Fuzzy Sets and Systems, Graph theory, Social Networking Analysis, Robotics, Optimizations.
- **Subjects Taught:** Calculus, Algebra, Numerical Analysis, Discrete Mathematics, Graph Theory, Vector Algebra And Fuzzy Mathematics.
- **Association with other professional bodies:** Life member of ‘The Indian Science Congress Association’.
- **Awards:** NET(2009), GATE(2009, 2010)
- **Editorial Member:** Cambridge Scholar Publications
- **Publications:**

Sr. No.	Journal	Title	Vol/issue/page/year	Impact Factor/ SCI/ SCOPUS
1	<b>IEEE Transaction on Fuzzy Systems</b>	Fuzzy Planar Graphs	23(6), 1936- 1942, 2015	<b>8.746</b> <b>SCI</b> <b>SCOPUS</b>

2	<b>Neural Computing and Applications</b>	Uncertainty in Sensor Data Acquisition for SOA System	DOI 10.1007/s00521-017-2910-2, 2017	<b>1.492</b> <b>SCIE</b> <b>Scopus</b>
3	<b>Journal of Intelligent and Fuzzy systems</b>	A Study on Bipolar Fuzzy Graphs	28, 571–580, 2015	<b>1.82</b> <b>SCIE,</b>  <b>SCOPUS</b>
4	<b>International Journal of Computational Intelligence Systems</b>	Bipolar Fuzzy Graphs with Categorical Properties	8(5), 808-818, 2015	<b>0.574</b> <b>SCI</b> <b>SCOPUS</b>
5	<b>International Journal of General Systems</b>	Product bipolar fuzzy graphs and their degree	45(1), 1-14, 2016 DOI: 10.1080/03081079.2015.1072521	<b>1.613</b> <b>SCI</b> <b>SCOPUS</b>
6	<b>Soft Computing</b>	Fuzzy phi-tolerance competition graph	21:3723–3734, 2017  DOI 10.1007/s00500-015-2026-5	<b>1.271</b> <b>SCIE</b> <b>SCOPUS</b>
7	<b>Journal of Intelligent and Fuzzy systems</b>	A Study on Fuzzy Labelling Graphs	30, 3349-3355, 2016	<b>1.82</b> <b>SCIE,</b>  <b>SCOPUS</b>
8	<b>Journal of Intelligent and Fuzzy systems</b>	Regularity of vague graphs	30, 3681-3689, 2016	<b>1.82</b> <b>SCIE,</b>  <b>SCOPUS</b>
9	<b>Journal of Intelligent and Fuzzy systems</b>	Vague graphs and Strengths	30, 3675-3680, 2016	<b>1.82</b> <b>SCIE,</b>  <b>SCOPUS</b>
10	<b>Journal of Intelligent and Fuzzy systems</b>	New concepts of vague competition graphs	31, 69–75, 2016	<b>1.82</b> <b>SCIE,</b>  <b>SCOPUS</b>
11	<b>International Journal of Machine Learning and Cybernetics</b>	Interval-valued fuzzy planar graphs	7:653–664, 2016	<b>SCIE</b> <b>1.11</b>  <b>SCOPUS</b>

12	Springer Pus	Completeness and regularity of generalized fuzzy graphs	5 (1979), 2016	0.982 SCIE SCOPUS
13	Springer Plus	Interval-valued fuzzy phi-tolerance competition graphs	5 (1981), 2016	0.982 SCIE SCOPUS
14	Springer Plus	A study on vague graphs	5 (1234), 2016	0.982 SCIE SCOPUS
15	International Journal of Computational Intelligence Systems	Generalized fuzzy trees	10, 711–720, 2017	1.14 SCI SCOPUS
16	Journal of Intelligent and Fuzzy systems	A study on bipolar fuzzy planar graph and its application in image shrinking	34(3),1863-1874, 2018	1.26 SCIE, SCOPUS
17	Journal of Intelligent and Fuzzy systems	A study on generalized fuzzy Euler graphs and Hamiltonian graphs.	To Appear	1.26 SCIE, SCOPUS
18	International Journal of Computational Intelligence Systems	Representations of fuzzy competition graphs	To Appear	1.14 SCI SCOPUS
19	Journal of Intelligent and Fuzzy systems	A study on generalized graphs.	To Appear	1.26 SCIE, SCOPUS
20	Afrika Matematika	Fuzzy Colouring of Fuzzy Graphs.	27(1), 37–50, 2016	SCOPUS
21	Journal of Applied Mathematics and Computing	m-step fuzzy competition graphs	47, 461–472, 2015.	SCOPUS
22	Fuzzy Information and Engineering	Fuzzy k-competition graphs and p-competition fuzzy graphs	5(2), 191-204, 2013	SCOPUS

23	The Journal of fuzzy mathematics	Some more results on bipolar fuzzy sets and bipolar fuzzy intersection graphs	22(2), 253-262, 2014	
24	Fuzzy Information and Engineering	Intuitionistic fuzzy graphs with categorical properties	7, 317-334, 2015	SCOP-US
25	Social Network Analysis and Mining	Centrality measurements in social networks: A survey	8 (13), 2018	SCOPUS
26	Pacific Science Review A: Natural Science and Engineering	Some Properties of Interval Valued Intuitionistic (S, T)-Fuzzy Graphs	18, 30-37, 2016	
27	The Journal of fuzzy mathematics	Cayley vague graphs	25(2), 449-462, 2017	
28	Turkish Journal of Fuzzy Systems	A New Approach to Social Networks Based on Fuzzy Graphs	5(2), 078-099, 2014.	
29	International Journal of Latest Trends in Mathematics	Fuzzy tolerance graphs	1(2), 57-67, 2011	
30	CIIT International Journal of Fuzzy Systems,	Fuzzy threshold graphs	3(12), 360-364, 2011.	
31	International Journal of Applications of Fuzzy Sets	Irregular bipolar fuzzy graphs	2, 91-102, 2012.	
32	International Journal of Fuzzy Logic Systems	Bipolar fuzzy hypergraphs	2(1), 17-28, 2012	
33	International Journal of Advanced Research in Artificial Intelligence	New concepts of fuzzy planar graph	3(1), 52-59, 2014.	
34	International Journal of Advanced Research in Artificial Intelligence	Some more results on fuzzy k-competition graphs	3(1), 60-67, 2014.	
35	International Journal of	Point distribution in football tournaments: a new approach	4, 115-125, 2014.	

	Applications of Fuzzy Sets and Artificial Intelligence			
36	International Journal of Emerging Trends & Technology in Computer Science	Medals tally of Olympics based on weighted points	1(2), 112-115, 2012.	
37	Journal of Telecommunication System and Management	Telecommunication system based on fuzzy graphs	3(1), 1-6, 2013.	
38	International Journal of Computer Science and Electronics Engineering	Some Results on Interval-Valued Fuzzy Graphs	3(3), 205-211, 2015	
39	Application of Bipolar Fuzzy Sets in Planar Graphs	International Journal of Applied and Computational Mathematics	3(2) 773-785, 2017 DOI 10.1007/s40819-016-0132-4, 2016	
40	Interval-valued fuzzy cliques and interval-valued fuzzy clique covers in interval-valued fuzzy graphs	New Mathematics and Natural Computation	To Appear	

➤ Conferences

PLACE	TOPIC	YEAR
NIT, Durgapur, India	Bipolar fuzzy graphs	2012
ISI, Kolkata, India	Social network analysis	2012
SAI, London	Fuzzy planar graphs	2013
CSNT, Nagpur	Fuzzy systems	2017

➤ Books

1. A Study on Fuzzy graphs and their applications, Lambert Publications, 2016
2. Book Chapter: "Link Prediction in Social Networks" in Graph Theoretic Approaches for Analyzing Large-Scale Social Networks, IGI Global, 164-172, 2017