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SINo	Title of the Article	First Author: Yes/No	Corresponding Author: Yes/No		National/International	ISSN or ISBN	Name of the Journal	Volume No.	Year	First Page No.	Last Page No.
1.	Face Recognition Based on Human Sketches Using Fuzzy Minimal Structure Oscillation in the SIFT Domain	No	No	1	International	Print ISBN: 978-981-15-6317-1 Electronic ISBN: 978-981-15-6318-8	Machine Learning, Image Processing, Network Security and Data Sciences Springer Second International Conference, MIND 2020, Silchar, India, July 30 - 31, 2020, Proceedings, Part II		2020		
2.	Face recognition using fuzzy minimal structure oscillation in the wavelet domain	yes	No	1	International;	10546618	Pattern recognition and image analysis Springer	29, No 1		221	227
3.	Impact of Bayesian Decision theoretic rough set attribute reduction on CART	NO	No	1	International	2349-5162	2019	Vol 5, issue 7	2018	336	342

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4.	s c o p u s	A Study on CART Based on Maximum Probabilistic- Based Rough Set.	No	No	2	Inter natio nal	Print ISBN978 -3-319- 71927-6 Online ISBN978 -3-319- 71928-3	Mike 2017, HYderabad	LNC S, volu me 106 82	2017	412 -	423
5.	s c o p u s	Application of Fuzzy m_x^* Oscillation in the Field of face recognition using Rough Set	No	No	1	Inter natio nal	2278- 8727	Journal of Computer Engineerin g	Vol 19, Issu e 4	Jul – Aug 2017	07	13
6.	s c o p u s	Application of IF set oscillation in the field of face recognition					1054 6618	Pattern Recognitio n and Image Analysis	27 Issu e 3,	July 2017	62 5	63 6
7.	s c o p u s	A frame work for face recognition based on fuzzy minimal structure oscillation and Independent component analysis;	yes	No	1	Inter natio nal		Industry Interactive Innovations in science , engineering and technology. LNNS, V- 11,	v-11	2018	20 9	21 7
8.		An application of maximum probabilistic rough set on ID3	No	No	1	Inter natio nal	978- 981-13- 1742-2	Informaton and communica tion technology for intelligent system , Springer	, ch 2, v- 106	2018	52 3	53 2
9.	s c o p u s	R implementation of Bayesian decision theoretic rough set model for attribute reduction	No	No	1	Inter natio nal	978- 981-10- 3953-9	Industry Interactive Innovation in Science and engineering and technology, Springer,	v-11	2017		

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10.	A Survey: Principal component analysis (PCA)	NO	No	1	Inter national		INTERNATION al Journal of advance research in science and engineering	v-6 issue 6	2017	312	320
11.	A new algorithm for removal of high density salt and paper noise in mr images	No	No	1	Inter national		Internation al Journal of advance research in science and engineering	V-6, Issue 6	June 2017	344	359
12.	A method of generating A consistent fuzzy rule base with less number of rules using equivalence classes	Yes	Yes	1	Inter national	10668950	The Journal of fuzzy mathematics	24 No 2	2016	499	506
13.	Clustering using similarity measure	Yes	Yes	1	Inter national	2093-9310	Annals of fuzzy mathematics and nformatics	11 No 1	2016	97	107
14.	A study on IF soft * lower rough approximation and IF soft * upper rough approximation	Yes	Yes	1	Inter national	2093-9310	Annals of fuzzy mathematics and informatics	11N O 3	2016	475	483
15.	A study on pre mX continuous function	Yes	Yes	1	Inter national	2149-1402	Journal of new theory	12	2016	8	22
16.	On If soft oscillating relation	Yes	Yes	1	Inter National	10668950	The Journal of fuzzy mathematics	23No 4	2015	757	766
17. s c o p u s	A study on intuitionistic fuzzy clustering	Yes	yes	01	Inter national	10668950	The Journal of fuzzy mathematics	23 No 3	2015	537	547
18.	Application of fuzzy rough oscillation on the field of data mining	No	No	01	Inter national	1877-0509	Procedia computer science(Elsevier)	45	2015	790	799

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	(special attention to the crime against women at Tripura)										
19.	A method for approximating solution of ode by using fuzzy transforms	Yes	Yes	1	International	198069685	Journal of nonlinear analysis and optimization theory and applications	5 No 1	2014	81	87
20.	A study on IF regular closed mX set	yes	Yes	1	International	10668950	The Journal of fuzzy mathematics	22, No 4	2014		
21.	A study on attribute reduction by Bayesian decision theoretic rough set models	Yes	Yes	1	International	20939310	Annals of fuzzy mathematics and informatics	8 no 6	2014	913	920
22.	s c o p u s A study on bayesian decision theoretic rough set	yes	Yes	0	International	2334-4598	International journal of rough sets and data analysis	1 No 1	2014		
23.	On IF weakly generalized minimal closed set	yes	yes	1	International	10668950	The Journal of fuzzy mathematics	22No 3	2014	695	702
24.	Attribute reduction using Bayesian decision theoretic rough set models	Yes	Yes	1	International	2334-4598	International journal of rough sets and data analysis	1 No 1	2014	15	31
25.	Text extraction from low contrast non uniform illuminated documents images using mathematical morphology and fuzzy operator	Yes	Yes	1	International	2093-9310	Annals of fuzzy mathematics and informatics	7 No 3	2014	495	518
26.	Upper and lower rarely mX mY continuous multifunction	yes	Yes	1	International	1304-7981	Journal of new results in science	5	2014	48	56
27.	On fuzzy mX* oscillation and its application in image processing	yes	Yes	1	International	2093-9310	Annals of fuzzy mathematics and informatics	7 no 2	2014	319	329
28.	Pre mX generalize closed sets and its applications	Yes	yes	1	International	1304-7981	Journal of new results in science	3	2013	735	741
29.	Some properties of IF semi mX open set	yes	yes	1	International	10668950	The Journal of fuzzy mathematics	21No 3	2013	735	741
30.	Contrast removal fuzzy operator in image processing	yes	yes	1	International	2093-9310	Annals of fuzzy mathematics and	6 No 2	2013	401	413

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							informatics				
31.	Intuitionistic fuzzy mathematical morphological approach in image processing	yes	yes	1	International	10668950	The Journal of fuzzy mathematics	21nO1	2013	217	228
32.	On IF rough oscillatory region and its application in decision making	yes	yes	1	International	2093-9310(Print version) 2287-6235 (electronic version)	Annala of fuzzy mathematics and informatics,	vol 5, no1,	January 2013,	241	267
33.	Some results on IF generalized minimal Λ set	Yes	Yes	nil	International	1927-5307 (UGC Ref No 48795)	Journal of Mathematical computational science, London Global Impact 0456	Vol 2, No 5	2012	1425	
34.	Study on Bipolar Fuzzy control theory	yes	yes	01	International	1312-7594	International Mathematical forum, Bulgaria	Vol-7, No 41	2012	2019	2025
35.	Some more results on IF soft rough approximation space	yes	yes	01	-do-	16879163	International Journal of combinatorics , Hindawi Publishing corp, Egypt	v-2011	2011	1	10
36.	On generalized minimal closed sets	Yes	yes	Nil	International	International Journal contemporary mathematical sciences	13127586	v-6, no4	2011	153	160
37.	On generalized regular closed sets	Yes	yes	Nil	International	International Journal contemporary mathematical sciences	13127586	v-6, no3	2011	145	152
38.	Study on pre mX open set	yes	yes	1	International	International mathematical forum, Bulgaria	13127594	v-6, no45	2011	2231	2237

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39.	A study on rare mX set and rarely mX continuous functions	yes	yes	Nil	International	Hacetep e Journal of mathematics and statistics	13035010	v-39, 3	2010	295	303		
40.	Some results on IF generalized minimal closed sets	yes	yes	Nil	International	International Journal of Mathematical analysis	13128876	v-4, no 32	2010	1577	1589		
41.	A study on category of mX induced fuzzy minimal structure	yes	yes	Nil	International	Int J of Fuzzy mathematics, Losangel es	10668950	v-17, no-4	2009	979	984		
42.	On fuzzy R- Λ and fuzzy R- V set	yes	yes	nil	International	Revista studii seria, Romania	12242519	18	2008	13	30		
43.	On fuzzy semi δ - Λ continuity in fuzzy δ -V topological spaces	no	yes	1	International	Ukrainia n Journal	0041-5995(Print version)	M Mo	2008	712	717		
	A study on fuzzy Δ set and fuzzy ∇ set	yes	yes	yes	national	Natio nal Mathematics	0973-2721	Bulletin Kerala Math society	6, no 5	10 No 2	DEc 2013	227	233

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2.	Application of fuzzy rough oscillatory region on data collected for HIV/AIDS	yes	yes	1	Natio nal	0973- 2721	Bulletin kerala Mathematical society	No 1	June 2013	19	26
3.	Upper and lower rarely $mX - mY$ continuous multifunction	yes	yes	1	Natio nal		J, Tri Math Society	v-14,	2012	69	73
4.	A method of reducing the number of rules in a fuzzy rule base particularly with three input parameters	yes	yes	1	Natio AL	0973272 1	Bulletin kerala math association	v-9, no2	Dec 2012	313	318
5.	Effects of basic fuzzy operation on fuzzy images in image processing	yes	yes	1	Natio nal	0973272 1	Bulletin kerala math association	v-9, no2	Dec 2012	303	313
6.	Some properties of pre * mX continuous function	yes	yes	1	Natio nal	-do-	-do-	v-9 No-1	June 20- 12	129	139
7.	Study on various properties of combined operators $C1$ and mX Int in Intuitionistic fuzzy topological spaces	yes	yes	1	Natio nal	-do	-do-	v-8, No 1	June 2011	139	145
8.	Study on various fundamental operators in a topological space	yes	yes	nil	Natio nal	0972- 8643	Antarctica J of Mathematics	v-7, 1	2010	103	110
9.	On Intuitionistic fuzzy generalized mX closed set	yes	yes	1	-do-	097213 20	J. Tri Math Society	11	2009	49	54

10	On fuzzy δ generalized closed sets	Yes	Yes	Nil	-do-	0972-7752	South east asian journal math & math sci	7, no 1	2008	5	17
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11	On fuzzy δ - Λ and fuzzy δ - V generalized sets	No	yes	1	-do-	09700455	Acta ciencia Indica	Xxxiv,	2008	1649	
12	On intuitionistic fuzzy oscillatory region	yes	yes	nil	-do-	0974-858x	International journal of fuzzy systems and rough systems , serial publication	1, no1	2008	15	19
13	Some properties of mX - Λ (resp mX - V) sets and its applications	yes	yes	1	-do-	09700455	Acta ciencia Indica	Xxxiv, no2	2008	513	
14	Basic probability assignment in HIV/AIDS	yes	yes	1	-do-	-do-	Acta ciencia Indica	Xxxiv, no2	2008	17	
15	On fuzzy strongly δ - Λ and fuzzy strongly δ - V generalized sets	yes	yes	nil	-do-	-do-	Acta ciencia Indica	Xxxiv, no3	2007	801	806
16	Some stronger form of $I(\text{do}, \text{o})$ mapping	No	yes	1	-do-	09721320	J Tri Math Soc	9	2007	29	44
17	On fuzzy δ - n topological spaces and its applications	No	yes	1	-do-	09721320	J Tri Math Soc	9	2007	5	20
18	On fuzzy supra semi δ - v continuity in fuzzy supra semi δ - v topological space	No	yes	1	-do-	09700455	Acta ciencia Indica		2007		
19	Study of operators generated by fuzzy δ - Λ	No	yes	1	-do-	09700455	Acta ciencia Indica	xxxiiM. No 1	2006	279	282

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	and fuzzy δ -V sets										
20	Some properties of fuzzy δ^* connectedness	No	Yes	1	-do-	0972-1320	J Tri Math Soc	7	2005	7	16
21	On fuzzy semi δ - Λ and fuzzy semi δ -V sets	No	Yes	1	-do-	0972-1320	J Tri Math Soc	6	2004	81	88
22	Some properties of fuzzy δ - Λ and fuzzy δ -V sets	No	Yes	1	-do-	0972-1320	J Tri Math Soc	6	2004	23	34

Sl No.	Name of the paper	Name of the conference, year, page NO	ISSN/ISBN No	Name of the co author
1.	A new fuzzy operator in enhancing images	Rough sets, Fuzzy sets and soft computing, NAROSA Publishing house		Md Atikul Islam
2.	A study on the monotonicity of the bipolar fuzzy transform	Mathematical sciences International research journal, Vol 1, No 2, 618-627	2278-8697	Purnendu Das
3.	On intuitionistic fuzzy regular closed mX set	Proceedings International conference on rough sets, fuzzy sets and soft computing, Nov 5 – 7, 2009, serials, 297-306	818387417	Jayanti Tripathy
4.	Some more results on fuzzy rough oscillatory region and its application in decision making	Ibid 206-216	-do-	Sushmita Roy
5.	Some more results on oscillatory region of a fuzzy set	International conference on modeling and simulation CIT, Coimbatore , 27-29 august 2007, 665-670	81-8424-218-2	A Mukherjee

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6.	On rough minimal structure (RmX structure)	J Tri Math Soc, Special volume, 13, 2011, 107-113	0972-1320	Sushmita Roy
7.	Some properties of pre* mX open set	Ibid, 101-106	-do-	Gour Pal
8.	A special relation in fuzzy image processing	Ibid 81-101	-do-	Md Atikul Islam
9.	Control of Traffic using fuzzy traffic light controller	Ibid 71-80	-do-	Shouvik Bhattacharya
10.	Some properties of fuzzy rough oscillatory region and its application in data mining	Proc Nat Sem on Rec Dev in Math and its Appl, Nov 14-15, 2008, 10-18		Susmita Roy
11.	On fuzzy δ^* separation axiom	Mathematics and application: Recent Trend, 2007, 32-37		A Mukherjee
12.	Boolean algebra formed by the set of fuzzy operators topology,	National seminar on fuzzy mathematics and its application, 2006, 123-130		-do-
13.	Cosmology An inseparable part of vedanta	Proceedings of the seminar cum workshop on vedic mathematics , April 2005, 22- 23		Nil
14.	δ - Induced fuzzy topological spaces	Proc Nat Sem on Recent Trends in Maths and its Appl, April; 2003, 177-182		A Mukherjee

01	Application of fuzzy oscillation in the field of face recognition	2015 International Symposium on Advanced Computing and Communication (ISACC)
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Total :

Books

Sl No	Title of the Book	Number of Authors	Name of the Publisher, Place	ISBN NO
1	Rough Sets,	2 (Editor)	Narosa Publication,	978-81-8487-403-7

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	Fuzzy Sets and Soft Computing		New Delhi	
2	Fuzzy set and fuzzy Topology	2	Narosa publication, New Delhi	978-81-8487-372-6
3	Crime against women in North East India	2	Lambert Academy publisher, Germany, 2011	
4	A study on generalized regular open sets	1	-do-	978-3-8465-9075-1
5	Delta Induced fuzzy topology generated by delta open set	1	-do-, 2010	978-3-8433-5213-0

Project

Sl. No.	Project Title	Funding Agency	Date of Completion (DOC)	Grant / Amount mobilized (Rs. lakh)
1.	Study on intuitionistic fuzzy soft set relation intuitionistic fuzzy rough set and their application in various real life problems	UGC	Feb 2013	8,27,800/=
2	On generalized regular open sets and its applications	UGC	01/02/2009-01/02/2011	70,000/=
3	Generalized δ open set and its application	UGC	01/05/2006-30/04/2008	60,000/=

Research Scholars

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Sl. No.	Name	Title of the thesis	Awarded/Registered
01	Susmita Roy	On fuzzy rough oscillatory region and its applications on data mining	Awarded in 2012
02	Jayanti Tripathy	On some generalized concepts of IF mX structure and their applications	Awarded in 2014
03	Md Atikul Islam	Study on some new fuzzy relations and its applications in the field of fuzzy image processing	Awarded in 2015
04	Shouvik Bhattacharya	Fuzzy rough queuing control and their applications in traffic control	Awarded in 2015
05	Purnendu Das	Some properties of newly constructed fuzzy transforms and its applications in numerical analysis	Awarded in may 2016
06	Kalyani Debnath	On Bayesian decision theoretic rough set model and its application	Awarded in 2017
07	Piyali Debnath	IF soft rough oscillatory region and its application	awarded in 2017
08	Gour pal	A study on generalized pre mX open set on topology generated by mX structure	Registered
09	Amarjit Chanda	A study on some new methods of clustering and applications	Awarded in 14 th January 2020
10	Utpal Pal	A study on Bayesian decision theoretic rough set using R Package	Awarded in 2020
11	Sumanta Saha	A study on hybridized ICA PCA Rough set model and its application in the field of image processing	Awarded in 2020
12	Srijita Barman Roy	A study on image processing techniques using various generalized forms of ICA and PCA	Awarded in 2020
13	Bibek Majumder		Public seminar completed 2020
13	Tandra Sarkar		Registered on December 2019

**Training courses, Teaching – Learning – Evaluation Technology Programmes,
Faculty Development Programmes (not less than one week duration)**

Sl. No.	Programme	Duration	Organized by	API Score
01	<i>ISI-TU Winter School on Pattern Recognition and Image Processing</i>	March 25-29, 2014	Department of Mathematics, Universty of Tripura

Papers presented in Conferences, Seminars, Workshops, Symposia.

Sl. No.	Title of Paper presented	Title of Conference/ Seminar etc. with date	Organized by	Level: College or University /Regional/State/ National/International	API score
1	Vedic cosmology	National Conference on Ancient Maths, 8-9 Feb, 2014	Tripura Mathematical Society, Agartala	National	7.5