Faculty Profile

Dr. Surender Singh Assistant Professor School of Mathematics Shri Mata Vaishno Devi University Kakryal, Katra, Jammu & Kashmir-182320



Brief Bio-data:

Dr. Surender Singh is an Assistant Professor in the School of Mathematics, Shri Mata Vaishno Devi University, Katra . He has received his Masters degree from Kurukshetra University, Kukrukshetra in 1999. He has also qualified CSIR (NET) in 2002 and later received his PhD (Mathematics) at Deen Bandhu Chhotu Ram University of Science & Technology, Murthal (Sonipat) in 2015. He has more than fifteen years of teaching experience. His main research interest is Mathematical Information Theory, Fuzzy Theory and applications. He has publications in reputed international journals and conferences. He has participated in many international and national conferences. He has also organized conferences at School of Mathematics, SMVDU. He is also a life member of professional bodies like Indian Mathematical Society, Jammu Mathematical Society, Indian Society of Industrial and Applied Mathematics, Indian Society of Technical Education, India, Indian Society of Information Theory and Applications, IAENG, RGMIA. He is also a reviewer of several international Journals of repute.

Educational Qualification:

S.	Qualifications	University / Institution / College	Year of
No.	acquired		Passing
1.	B.Sc.(Phy., Chem.,	Maharshi Dayanand University, Rohtak	1996
	Maths.)		
2.	M.Sc. (Mathematics)	Kurukshetra University, Kurukshetra	1999
3.	Ph.D.(Mathematics)	Deenbandhu Chhotu Ram University of Science &	2015
		Technology, Murthal (Sonepat), Haryana	
		Title of Thesis: Some Generalized Information and	
		Divergence Measures and their Applications	
		Supervisors: Prof. P. K. Bhatia and Dr. Vinod Kumar	

Professional Qualification:

Qualified National Educational Test (NET) conducted by CSIR-UGC in the year 2002.

Experience:

Teaching: 15 years Research: 12 years Administration: 08 years Total: 15 years

Professional Affiliation:

S. No.	Designation	Organization	Duration
1	Lecturer	S.D. (P.G.)College, Panipat	19 th July 2000 to 15 th March 2002
2.	Lecturer	I.B. (P.G.)College, Panipat	15 th July 2002 to 22 March 2003
3.	Lecturer	S.D. (P.G.)College, Panipat	18 July 2006 to March 2007
4.	Assistant Professor	S.D Institute of Tech. and Management, Israna Panipat	25 th June 2007 to 29 th November 2011
5.	Assistant Professor	Shri Mata Vaishno Devi University, Katra	1 st December 2011 to Till date

Courses Taught:

P.G. LEVEL (M.Sc./M.Tech.):

- Abstract Algebra
- Discrete Mathematics
- Linear Algebra
- Real Analysis
- Differential Equations
- Calculus of Variations and Mechanics
- Modern Applied Algebra

U.G. LEVEL (B.Sc./B.Tech.)

- Real Analysis
- Algebra
- Vector Calculus and Coordinate Geometry
- Stochastic Models in Computer Sciences

- Discrete Structure
- Applied Graph Theory
- Numerical Methods
- Engineering Mathematics-I
- Engineering Mathematics-II
- Engineering Mathematics-III

Areas of Interest / Specialization:

- 1. Mathematical Information Theory
- 2. Fuzzy Theory and Applications

Research Profile

Research Publications:

Published Journal Papers (Only SCI/SCIE/Scopus Listed Journals)

S.	Name of	Title of the paper	Name of the Journal	Voume,	Link of the	Indexing
No	Faculty		with Impact Factor	Page No.,	paper	
•			& ISSN	Year		
1.	Surender	On some correlation	International Journal	35(4),	https://onlinelibra	SCIE
	Singh,	coefficients in Pythagorean	of Intelligent Systems	682-717	ry.wiley.com/doi/	Indexed
	Abdul	fuzzy environment with			<u>abs/10.1002/int.2</u>	
	Haseeb	applications	Impact factor: 7.229	Year: 2020	<u>2222</u>	
	Ganie		ISSN: 1098-111X			
2.	Abdul	Some new correlation	Neural Computing	To be	https://link.spring	SCIE
	Haseeb	coefficients of picture fuzzy	and Applications	assigned,	er.com/content/p	Indexed
	Ganie,	sets with applications		1-17	df/10.1007/s0052	
	Surender		Impact factor: 4.664		<u>1-020-04715-</u>	
	Singh		ISSN: 0941-0643	Year: 2020	<u>y.pdf</u>	
3.	Surender	Generalized Correlation	International Journal	To be	https://link.spring	SCIE
	Singh,	Coefficients of	of Fuzzy Systems	assigned,	er.com/article/10.	Indexed
	Sonam	Intuitionistic Fuzzy Sets		1-14	1007/s40815-	
	Sharma,	with Application to	Impact factor: 3.08		<u>020-00866-1</u>	
	Sumita	MAGDM and Clustering	ISSN: 1562-2479	Year: 2020		
	Lalotra	Analysis				
4.	Surender	Knowledge measure of	Computational and	39(2),	https://link.spring	SCIE
	Singh,	hesitant fuzzy set and its	Applied Mathematics	Article 86,	er.com/article/10.	Indexed
	Sumita	application in multi-		1-31	1007/s40314-	
	Lalotra	attribute decision-making	Impact factor: 1.26		<u>020-1095-y</u>	
			ISSN: 2238-3603	Year: 2020		
5.	Surender	Dual Concepts in Fuzzy	International Journal	34(5),	https://onlinelibra	SCIE
	Singh,	Theory: Entropy and	of Intelligent Systems	1034-1059	ry.wiley.com/doi/	Indexed
	Sumita	Knowledge Measure			abs/10.1002/int.2	
	Lalotra,	6	Impact factor: 7.229	Year: 2019	<u>2085</u>	
	Sonam		ISSN: 1098-111X			
	Sharma					

6.	Surender	On Generalized Correlation	Computational and	38(1),	https://link.spring	SCIE
0.	Singh,	Coefficients of the Hesitant	Applied Mathematics	Article 11,	er.com/article/10.	Indexed
	Sumita	Fuzzy Sets with Their	rr	1-26	1007/s40314-	
	Lalotra	Application to Clustering	Impact factor: 1.26		019-0765-0	
		Analysis	ISSN: 2238-3603	Year: 2019		
7.	Sonam	Generalized correlation	Journal of Intelligent	36(2),	https://content.ios	SCIE
	Sharma,	coefficients of the fuzzy	and Fuzzy Systems	3671-3683	press.com/articles	Indexed
	Surender	sets and fuzzy soft sets with	, ,		/journal-of-	
	Singh	application in cleanliness	Impact factor: 1.637	Year: 2019	intelligent-and-	
		ranking of public health	ISSN: 1064-1246		<u>fuzzy-</u>	
		centres			systems/ifs18183	
					8?resultNumber=	
					<u>0&totalResults=7</u>	
					<u>&start=0&q=sure</u>	
					nder+singh&resu	
					<u>ltsPageSize=10&</u>	
					<u>rows=10</u>	
8.	Sumita	On a knowledge measure	Journal of	11,	https://www.atlan	SCIE
	Lalotra,	and an unorthodox	Computational	1338-1356	<u>tis-</u>	Indexed
	Surender	accuracy measure of an	Intelligent Systems		press.com/journal	
	Singh	intuitionistic fuzzy set(s)		Year: 2018	s/ijcis/25902770	
		with their applications	Impact factor: 2.153			
			ISSN: 1875-6891	27/2		~ ~~~
9.	Surender	Generalized correlation	Journal of Intelligent	35(3),	https://content.ios	SCIE
	Singh,	coefficients of the hesitant	and Fuzzy Systems	3821-3833	press.com/articles	Indexed
	Sumita	fuzzy sets and the hesitant	T 46 4 1 (25	¥7 2010	/journal-of-	
	Lalotra	fuzzy soft sets with	Impact factor: 1.637	Year: 2018	<u>intelligent-and-</u>	
		application in group	ISSN: 1064-1246		fuzzy-	
		decision-making			<pre>systems/ifs18719 ?resultNumber=1</pre>	
					&totalResults=7	
					&start=0&q=sure	
					nder+singh&resu	
					ltsPageSize=10&	
					$\frac{\text{rows}=10}{\text{rows}=10}$	
10.	Surender	On generalized correlation	International Journal	10(4),	10113-10	Scopus
10.	Singh,	coefficients of Picture	of Fuzzy System	Article 2		Indexed
	Abdul	fuzzy sets with their	Applications			
	Haseeb	applications	FF			
	Ganie,		Impact factor: NA	Year: 2021		
	Sumita	(To Appear)	ISSN: 2156-177X			
	Lalotra	(PP)				
11.	Surender	On a weighted fuzzy	Songklanakarin		https://rdo.psu.ac.	Scopus
	Singh,	knowledge measure with its	Journal of Science		th/sjstweb/Ar-	Indexed
	Sumita	application to multi-	and Technology		Press/2019Nov/1	
	Lalotra	attribute decision-making		Year: 2020	<u>0.pdf</u>	
			Impact factor: NA		_	
		(In Press)	ISSN: 0125-3395			
12.	Surender	On Some Knowledge	Cybernetics and	20(1),	http://www.cit.iit.	ESCI,

	Singh,	Measures of Intuitionistic	Information	3-20	bas.bg/CIT-	Scopus
	Sumita	Fuzzy Sets of Type Two	Technologies		2020/v-20-	Indexed
	Lalotra,	with Application to		Year: 2020	1/10341-	
	Abdul	MCDM, 3-20	Impact factor: NA		Volume20_Issue	
	Haseeb		ISSN: 1314-4081		_1-01_paper.pdf	
	Ganie					
13.	Surender	On Generalized Fuzzy	International Journal	8(3),	https://www.igi-	Scopus
	Singh,	Entropy and Fuzzy	of Fuzzy System	Article 2,	global.com/articl	Indexed
	Sonam	Divergence Measure with	Applications	1-23	e/on-generalized-	
	Sharma	Applications, 47-69			<u>fuzzy-entropy-</u>	
			Impact factor: NA		and-fuzzy-	
			ISSN: 2156-177X	Year: 2019	divergence-	
					measure-with-	
					applications/2335	
1.4			Y 1 Y . 1	0(2)	86	
14.	Surender	On Generalized	International Journal	8(2),	https://www.ijrte.	Scopus
	Singh, Sonam	Intuitionistic Fuzzy	of Recent	1536-1542	org/wp-	Indexed
		Knowledge Measure and its	Technology and		content/uploads/p	
	Sharma	Application in MADM	Engineering	Year: 2019	apers/v8i2/B2186 078219.pdf	
		using Combined Weights, 1536-1542	Impact factor: NA	1 ear: 2019	<u>078219.pul</u>	
		1330-1342	ISSN: 2277-3878			
15.	Surender	Concept of certainty in	AIP Conference	170003 (1-	https://aip.scitatio	Scopus
13.	Singh,	residual life of a system,	Proceedings	5)	n.org/doi/10.1063	Indexed
	Sonam	residual inte of a system,	Troccounigs		/1.5122600	maenea
	Sharma		Impact factor: NA	Year: 2019	<u>/ 186 122 0 0 0</u>	
			ISSN: 1551-7616			
16.	P.K Bhatia	On Some Properties of	Acta Mathematica	31(2),	https://www.emis	Scopus
	and	Tsallis Entropy on	Academiae	3331-340	.de/journals/AM	Indexed
	Surender	Majorization Lattice	Paedagogiace		APN/vol31_2/13.	
	Singh,		Nyíregyháziensis	Year: 2015	<u>html</u>	
	Vinod					
	Kumar		Impact Factor: NA			
			ISSN:1786-0091			
17.	P.K Bhatia,	On a New Csiszar's f-	Cybernetics and	13(2),	http://www.cit.iit.	Scopus
	Surender	Divergence Measure	Information	43-57	bas.bg/CIT_2013	Indexed
	Singh		Technologies	T7 0010	<u>/v13-2/10341-</u>	
			T 4 C 4 NTA	Year: 2013	Volume13_Issue	
			Impact factor: NA		2-03_paper.pdf	
ית	oliakad Ta	umal Danaua (Dafaaa d	ISSN: 1314-4081	1		
rui	onsnea Jou	ırnal Papers (Referred	Journais)			
18.	Abdul	An exponential hesitant	Journal of Basic and	6(2),		
10.	Haseeb	fuzzy entropy measure	Applied Engineering	283-288		
	Ganie,	Tazzy entropy measure	Research	203 200		
	Sumita		105001011			
	Lalotra,			Year:2019		
	Surender		Impact factor: NA			
	Singh		ISSN: 2350-0077			
	0					
				· ·		

10	G 1	O C N 1C 14	D . CD .	1.6(0)	1 // /1 /	
19.	Surender	On Some Novel Correlation	Review of Business	16(2),	http://mtmi.us/rbtr/	
	Singh,	Coefficients in Picture	and Technology	14-18		
	Abdul	Fuzzy Environment	Research			
	Haseeb					
	Ganie		Impact factor: NA	Year:2019		
			ISSN: 1941-9414			
20.	Surender	On some optimization	Advanced Modeling	20(1),	https://camo.ici.ro/j	Mathema
	Singh,	principles	and Optimization	89-100	ournal/vol20/v20a7	tical
	Sumita	based on hesitant fuzzy	•		<u>.pdf</u>	Reviews,
	Lalotra	entropies	Impact factor: NA		*	UGC List
		,	ISSN: 1841-4311	Year:2018		
21.	P.K Bhatia	On Applications of a	International Journal	7(7),	http://www.mecs-	EBSCO,
21.	Surender	Generalized Hyperbolic	of Intelligent	36-43	press.org/ijisa/ijisa-	ProQuest ProQuest
	Singh,	Measure of Entropy	Systems and	30 13	v7-n7/IJISA-V7-	, J-Gate
	Vinod	Wedsare of Entropy	Applications		N7-5.pdf	, s Gate
	Kumar,		rippiications		<u>117-3.pdf</u>	
	Kumar,		Impact factor: NA	Year:2015		
			ISSN: 2074-904X	1641.2013		
22.	P.K Bhatia,	On A Generalized	International Journal	4(12),	http://www.ijma.inf	Index
22.			of Mathematical	136-142	o/index.php/ijma/ar	
	Surender	Hyperbolic Measure Of		130-142		Copernic
	Singh,	Fuzzy Entropy	Archives		ticle/view/2540	us
	Vinod		T 46 4 NA	¥7 2014		
	Kumar		Impact factor: NA	Year:2014		
			ISSN:2229-5046			
22	P.K Bhatia	A Name Manager of France	Tut 1 T 1	5(4)	1.44//	EDCCO
23.		A New Measure of Fuzzy	International Journal	5(4),	http://www.mecs-	EBSCO,
	and	Directed Divergence and its	of Intelligent	81-89	press.org/ijisa/ijisa-	ProQuest
	Surender	Application in Image	Systems and		<u>v5-n4/IJISA-V5-</u>	, J-Gate
	Singh	Segmentation	Applications		<u>N4-8.pdf</u>	
			T	T. 2012		
			Impact factor: NA	Year:2013		
			ISSN: 2074-904X			
24.	P.K Bhatia,	On Some Divergence	Advanced Modeling	15(2),	https://camo.ici.ro/j	Mathema
	Surender	Measures Between Fuzzy	and Optimization	235-248	ournal/vol15/v15b8	tical
	Singh	Sets And Aggregation			<u>.pdf</u>	Reviews,
		Operations	Impact factor: NA			UGC List
			ISSN: 1841-4311	Year:2013		
25.	P.K Bhatia,	Three Families of	Advanced Modeling	14(3),	https://camo.ici.ro/j	Mathema
	Surender	Generalized Fuzzy Directed	and Optimization	599-614	ournal/vol14/v14c1	tical
	Singh	Divergence			<u>4.pdf</u>	Reviews,
	_		Impact factor: NA			UGC List
			ISSN: 1841-4311	Year:2012		

Book Chapter:

S. No.	Author(s)	Publication
1.	Surender Singh	Studies on Intutionistic Fuzzy Information Measure, Mathematical Modelling and Information Technologies, Lambert Academic Publishing.

Research Supervised:

A. Ph.D. Supervision:

S. No.	Student Name	Year	Role	Research Topic	Status
1.	Sumita Lalotra	2017-2020	Supervisor	A Study of Information Measures and Correlation Measures based on Intuitionistic and Hesitant Fuzzy Sets	Submitted on 08 Feb. 2020
2.	Sonam Sharma	2016-2020	Supervisor	Some Information Measures and Correlation Measures Based on Fuzzy and Intuitionistic Fuzzy Sets	Thesis written (To be Submitted)
3.	Abdul Haseeb Ganie	2017-2020	Supervisor	Some Measures of Ambiguous Information with Applications	Near Thesis Submission

B. Master Project/Thesis Supervision:

S.NO.	Title of the Master Thesis	Students	Year of
			award
1.	On Some Noetherian and Artinian	Meena Kumari (2011SMM10),	2013
	Rings	Sushil Kumar(2011SMM18)	
2.	A survey of E-resources for research in	Sunil Kumar(2012SMM18)	2014
	Mathematical Sciences		
3.	On Some Information Theoretic	Deepika Gupta(2012SMM08),	2014
	Models	Anjali Dogra (2012SMM17)	
4.	A Study of Intuitionistic Fuzzy Sets	Ravinder Singh(2013SMM10),	2015
	and Their Applications	Rohini Jasrotia (2013SMM09),	
		Rajni Bala(2013SMM12)	

5.	Multi-criterion Decision Making in	Neha Sharam(14MMM015),	2016
	Framework of Fuzzy Theory	Divya Sharma(14MMM024)	
6.	Fuzzy Similarity and Dissimilarity	Kimmi Rajput(14MMM007),	2016
	Measures with Their Application in	Vikas Kumar (14MMM018)	
	Pattern recognition and Medical		
	Diagnosis		
7.	A study of Aggregation Operators	Sapna Devi (15MMM017),	2017
		Shria Sharma(15MMM019)	
8.	Basics of Number Theory and	Neha Mahajan (15MMM018),	2017
	Cryptography	Parth Gupta(15MMM013)	
9.	On Some Clustering Methods	Silky Sharma (16MMM016),	2018
		Nitish Badyal(16MMM026),	
		Rupali Gupta(16MMM033)	
10.	On Some Methods of Image	Karnika Sharma(16MMM012),	2018
	Segmentation	Surbhi Sudan(16MMM032)	
11.	On Some Methods of Decision Making	Surbhi Gupta(17MMM031),	2019
		Sakshi Verma(17MMM036),	
		Punit Punia(17MMM041)	
12.	A Study of Some Functional Equations	Taranjeet Singh(17MMM043),	2019
		Skinder (17MMM011)	
13.	On Some Information Measures of	Samreeti Sharma (18MMM031),	2020
	Neutrosophic Sets	Simran Gupta(18MMM048),	
		Supriya Sharma (18MMM049)	
14.	On Some Applications of Fuzzy Logic	Nancy Padha (18MMM018)	2020
		Ranjana Sharma (18MMM025)	

Attended Workshops/Orientation/Refresher Courses recognized by National /International Professional bodies:

- AICTE Sponsored Staff Development Programme on "Theory and practical Applications of FEM" organized by MED, NCCE Israna, Haryana during 14th June, 2010 to 25th June, 2010.
- 2. UGC-Sponsored Orientation Course at Academic Staff College, BPS Mahila Vishwavidyalaya, Khanpur Kalan during 21st Nov, 2012 to 18th Dec, 2012.
- 3. One week Staff Development Program Introduction to MATLAB® and Matrox® Imaging Library (MIL) with Emphasis on hands on Practice (SDPMMIL,12) at School of ECE, SMVDU during 23rd to 27th Dec, 2012.
- 4. TIES Sponsored One week National Workshop on Basic Econometrics at School of Business, Faculty of Management, SMVDU during 3rd to 8th March,2014

- 5. UGC Sponsored Refresher Course at UGC-Academic Staff College, University of Allahabad during 24th May, 2014 to 13th June, 2014.
- 6. ICT based ONE WEEK Workshop "Optimization using MATLAB", from 24th 28th October, 2016 conducted by NITTTR, Chandigarh organized at SMVDU, Katra.
- 7. ICT based ONE WEEK Workshop "Cloud Computing", from 5th -9th December 2016 conducted by NITTTR, Chandigarh organized at SMVDU, Katra.
- 8. Two week Referesher course in Research Methodology at HRDC, Shri Mata Vaishno Devi University, Katra w.e.f. 14th March, 2017 to 27th March, 2017
- 9. One week STTP on "Stochastic Modelling and Optimal Control of Engineering System" during May 22 26, 2017 organized by Deptt. of Mathematics, IIT Roorkee under QIP...
- 10. Participated and completed "one week Faculty Development Programme on Applications on Soft Computing and Machine Learning" from April 3-7, 2018 organized by School of Computer Science and Engineering, SMVDU, Katra.
- 11. Participated and successfully completed AICTE approved Faculty Development Programme (FDP101X) on "Foundation program in ICT for Education" conducted by IIT Bombay from March 8-April 12, 2018 under the aegis of PMMMNMTT, MHRD, GOI. (Two week equivalent FDP)
- 12. Participated and successfully completed AICTE approved Faculty Development Programme (FDP201X) on "Pedagogy for Online and Blended Teaching-Learning Process" conducted by IIT Bombay from April -June 18, 2018 under the aegis of PMMMNMTT, MHRD, GOI. (Two week equivalent FDP)
- 13. Successfully completed "Training of Trainers Workshop on UGC-Faculty Induction Programme (FIP) from 27-29 March 2019 held at IISER, Pune.

MOOC Courses

- 1. Successfully completed NPTEL MOOC certificate course on "Introduction to Soft Computing" conducted by IIT, Kharagpur from February-March (08 weeks), 2018.
- 2. Successfully completed NPTEL MOOC certificate course on "Integral and Vector Calculus" conducted by IIT, Kharagpur from January-April (12 weeks), 2019.

<u>Presented papers in Workshops/Seminars/Conferences conducted or recognized by</u> <u>Professional agencies:</u>

A. International Conference abroad

 Participated and presented a paper entitled, "On some novel correlation coefficients in picture fuzzy environment" in 2019 MTMI International Conference on Emerging Issues in Business, Technology and Applied Sciences during 20-22 December 2019 organized by Amity Institute of Higher Education, Ebene, Mauritius.

B. <u>International Conferences within the country</u>

- 1. Participated and presented a paper entitled, "On a certainty measure of residual life of a System" in International Conference on Applied and Basic Sciences on 8th February 2019 organized by GDC Memorial College Bahal, Bhiwani, Haryana.
- 2. Participated and presented a paper entitled, "On useful fuzzy knowledge measure and accuracy measure"84th Annual conference of Indian Mathematical Society-An International Meet during 27-30 November 2018 organized by School of Mathematics, Shri Mata Vaishno Devi University, Katra, Jammu and Kashmir.
- 3. Participated and Presented a paper entitled, "On a dual of residual uncertainty measure" in International conferences & 14th Biennial Conference of Indian Society of Industrial and Applied Mathematics (ISIAM) from February 2-4, 2018, organized by Department of Mathematics, Guru Nanak Dev University, Amritsar, Punjab.
- 4. Presented research paper titled "Studies on Intuitionistic Fuzzy Information Measure" in 1st International Conference of Indian Society of Information Theory and Applications (ISITA) on "Mathematical Modeling, Optimization and Information Technology "organized by Sri Sai College of Engineering and Technology, Badhani, Pathankot, Punjab during 16th to 19th Jan, 2015.
- Presented research paper titled "Two Parameter Entropy of Uncertain Variables" in International Conference on Mathematics & Engineering Sciences organized by Chitkara University Himachal Pradesh during 20th to 22nd March,2014.

C. National Conferences

- Presented Research Paper titled "On Fuzzy Concepts in Engineering & Technology" in AICTE Sponsored National Seminar on Applications of Mathematics in Engineering Sciences organized by Deptt. Of ASH, NCCE Israna, Haryana on 17th March, 2012.
- 2. Presented paper entitled "On Some Economic Applications of Shannon's Measure" in two days National workshop on Mathematics and its Applications organized by Deptt. of Mathematics, DCR University of Science and Technology, Murthal, Sonepat (Haryana) during 18th to 19th October, 2012.
- Presented Paper titled "New Measure of Fuzzy Directed divergence & is application in image segmentation" in "First National Conference on Machine intelligence Research and Advancement" organized by SECE, SMVDU during 21st to 23rd Dec, 2012.
- 4. Presented research paper "On Some Aspects of Modelling" in National Conference on Algebra, Analysis and Applications organized by School of Mathematics, SMVDU, Katra during 15th to 16th March, 2013.
- 5. Presented research paper "On a New Csiszar's f-divergence Measure" in National Seminar on Recent Trends in Mathematical Sciences organized by School of Mathematics, SMVDU, Katra on 22nd March, 2013.
- 6. Presented research paper titled "On a New Intutionistic Fuzzy Information Measure using REF" in 2nd National Symposium of Interdisciplinary Sciences organized by Govt. Gandhi Memorial Science College, Jammu during 27th to 28th February, 2015.
- 7. Presented paper entitled "On a New Intutionistic Fuzzy Divergence" in the National Conference on Recent Trends in Mathematical Sciences organized by DoM, SMVDU, Katra during 8th to 9th october, 2015.
- 8. Presented paper entitled "On entropy and cross entropy of uncertain variables" in the National Conference on Recent Trends in Mathematical Sciences organized by DoM, SMVDU, Katra during 9th to 10th February, 2017.
- 9. Presented paper entitled "Generalized entropy of finite partition of fuzzy set" in the National Conference on Topology, Analysis, Algebra and their Applications organized by DoM, SMVDU, Katra during 7th to 8th March, 2017.

10. Participated and delivered a talk entitled, "On measures of knowledge and accuracy in intuitionistic fuzzy environment and their applications" in National Seminar on "Recent Advances in Complex Analysis and Operator Theory" and 27th Annual Conference of the Jammu Mathematical Society from February 15-17, 2018, organized by Department of Mathematics, University of Jammu, Jammu, J & K.

Session Chair in International Conferences

- Chaired a Technical Session 'Soft Computing and Applications' in 2019 MTMI
 International Conference on Emerging Issues in Business, Technology and Applied Sciences during 20-22 December 2019 organized by Amity Institute of Higher Education, Ebene, Mauritius.
- 2. Chaired a Session in International Conference on Mechanical Engineering and Allied Sciences (ICMEAS-2018) during 14-15 September 2018 organized by School of Mechanical Engineering, Shri Mata Vaishno Devi University, Katra, Jammu and Kashmir.

Extension Work (Seminars/Workshops/Conferences/events organized):

Extension Work		Member/Coordinator/Organizing Secretary
Seminar / Work	shop /	(various conferences as given below)
Conference/eve	ent Organized	
Date	Duration	
28 th February,	01 day	Coordinator, Written competition and science quiz event at
2013		School of Mathematics to celebrate National Science Day.
15-16 th	02 days	Member of organizing Committee in National Conference on
March, 2013		Algebra, Analysis and Applications organized by School of
		Mathematics
22 nd March,	01 day	Member of organizing Committee in National Seminar on
2013		Recent Trends in Mathematical Sciences organized by School
		of Mathematics
8-9 th October,	02 days	Member of organizing Committee in National Conference on

nds tics
tics
17
n
zed
nce
evi
shno
s

Reviewer

- Reviewer, Mathematical Reviews, American Mathematical Society
- Reviewer, Kybernetika
- Reviewer, Computational and Applied Mathematics, Springer Nature
- Reviewer, Communications in Mathematics and Statistics, Springer Nature
- Reviewer, International Journal of Intelligent Systems, Wiley Periodicals Inc.
- Reviewer, Journal of Advances in Mathematics and Computer Science
- Reviewer, Fuzzy Systems and Decision Making, Conference Papers

Membership of Professional Bodies

- Life member of Indian Mathematical Society, India
- Life member of Jammu Mathematical Society, Jammu, India.
- Life member of Indian Society of Industrial and Applied Mathematics, India
- Life member of Indian Society of Technical Education, India.
- Life member of Indian Society of Information Theory and Applications
- Life member of IAENG
- Member, RGMIA

Administrative Experience

- A. Administrative post: Warden, Nilgiri Boys Hostel (27th July, 2016 to till date)
- B. Convener/Co-ordinator/Member of Committees, etc:

25th June, 2007 to 29th Nov., 2011 at SDITM, Israna, Panipat, Haryana

- Professor In charge, Central Library (29/07/2007 to 29/11/2011)
- Member, Prospectus/Information Brochure/Pamphlets Printing and designing Committee for Admission (2008-2009)
- Member, Screening Committee for recruitment of various Technical and administrative positions (2009)
- Member, Team for Internal Audit for ISO Certification (2010)
- Event Coordinator(Quiz) at National level Inter College Techno-Test "Versatelia-10"
 20th March, 2010. (SD Institute of Technology and Management)
- Event Coordinator(**Puzzle**) at National level Inter College Techno-Test "Synergy-10" 16-17th April,2010. (Joint Venture of NC-SD Group of Institutions)
- Organizing Secretary, National workshop on "Microwave and Wireless communications" at SDITM, Israna, Panipat. 30/04/2011. (ISTE TEACHER'S CHAPTER)
- HoD, Applied Sciences & Humanities (27/09/2011 to 29/11/2011)
- Examination Coordinator, Internal Examination Cell (2011-2012)
- Member, Anti Ragging Committee (2010-2011, 2011-2012)

1st Dec., 2011 to till date at SMVDU, Katra, J & K

- Member-Secretary, Academic Affair Committee, School of Mathematics (2017 to till date)
- Member, Student Faculty Committee (2012-till date)

- Coordinator, Time Table, School of Mathematics (2017 to till date)
- Coordinator at School of Mathematics (Remedial Class Scheme for SC/ST/OBC/BPL)
 under Equal Opportunity Cell (2013-2014)
- Member Ex-officio, Board of Studies
- Member, Commercial Establishment Committee (2013 to till date)
- Member, Anti Ragging Squad (2014, 2015).
- Coordinator, Computer Lab, SoM (2014 to till date)
- Member, DSRC (2015 to till date)
- Member, DRC (2016-2017, 2019 to till date)
- Co-ordinator, Workshop-cum-BoS, **29th May**, **2016**
- Member, Admission Committee, DoM (2016)
- Faculty, Coordinator, MOOC (Spoken Tutorial **2016**)
- Faculty Coordinator, Music Club (2016 to till date)
- Convener, Screening Committee, SMVDU-TBIC (recruitments of various posts in 2016)
- Member, Hygiene Committee of Hostel
- Member, Review committee, Ms/ CISB, Security Services (2017-2019)
- Member, Review committee, M/s CIS Bureaus Facility Services Pvt. Ltd., Jammu (2017-2019) (providing services of Drivers, Peons/Helpers & General Workers at SMVDU)
- Member, Review committee, M/s Lakshmi Enterprises, Bhatinda (providing housekeeping services at SMVDU) (2017-2019)
- Member Secretary, School level NAAC committee (2018)
- Member, Shortlisting/Screening Committee for the recruitment of Hostel Caretaker (Male/Female) (August 2018)
- Member, Shortlisting/Screening Committee for the recruitment of Junior Assistants (August 2018)
- Member, Academic Affair Committee, Directorate of Quality Assurance, SMVDU
 (2019 to till date)
- Member, Committee for Medical Insurance of the Students (2020-2021)

Web Profiles:

Research Gate: https://www.researchgate.net/profile/Surender_Singh5

Scopus Author ID: https://www.scopus.com/authid/detail.uri?authorId=57201871350

MathSciNet: https://mathscinet.ams.org/mathscinet/search/author.html?mrauthid=956574

Orcid ID: http://orcid.org/0000-0003-3430-9674

Google Scholar: https://scholar.google.com/citations?user=ehD533EAAAAJ

Personal Details:

S/o Sh. Guljari Lal

Smt. Sita Devi

Present School of Mathematics

Address: Shri Mata Vaishno Devi University, Katra-182320, Jammu and Kashmir

E-Mail: surender.singh@smvdu.ac.in, surender1976@gmail.com

Mobile No.: 9906132939

Declaration: The information given above is correct to the best of my knowledge.

Date: 15/06/2020 **Sd/-**

Place: SMVDU, Katra Surender Singh