

Resume

Dr. Mukesh
Ph. D., NET-JRF (UGC),
Assistant Professor
Department of Mathematics
MRSPTU Bathinda

Email: mukesh.sarangal@mrsptu.ac.in , Mob: 9988917125

CAREER OBJECTIVE

A challenging career with a research organization that will support and encourage my pursuit to gain technical expertise and in-depth knowledge in the field of Mathematics.

EDUCATIONAL QUALIFICATIONS

S.No	Qualification	Name of Institution	University/ Board	%age	Year of Passing
1.	Ph. D.	Guru Nanak Dev University, Amritsar.	Guru Nanak Dev University, Amritsar.	--	2015
2.	Pre Ph. D. Course Work	Guru Nanak Dev University, Amritsar.	Guru Nanak Dev University, Amritsar.	9.2/10 CGPA	2010
3.	M.Sc(Mathematics)	Guru Nanak Dev University, Amritsar.	Guru Nanak Dev University	69	2007
4.	B.Sc (Non Medical)	Govt.College, Gurdaspur.	Guru Nanak Dev University	56	2005
5.	+2(Non Medical)	Govt. College, Gurdaspur..	P.S.E.B	56	2002
6.	Matriculation	Khalsa High School, Gurdaspur.	P.S.E.B	58	2000

PARTICULARS OF HAVING NET-JRF: 22 June, 2008, Roll No. 400921

AREA OF SPECIALIZATION: Information Theory

PUBLICATIONS: 19 Papers and 3 Book Published

a) Articles in journals

- I. Om Parkash and Mukesh (2011): "Two new symmetric divergence measures and information inequalities", *International Journal of Mathematics and Applications*, **4**, 165-179.
- II. Om Parkash and Mukesh (2012): "New generalized parametric measure of entropy and cross-entropy", *American Journal of Mathematics and Sciences*, **1**, 91-96.
- III. Om Parkash and Mukesh (2012): "Development of optimizational principle for minimizing risk in portfolio analysis", *Global and Stochastic Analysis: An International Journal*, **2**(1), 21-26.
- IV. Mukesh, G. S. Buttar and A. K. Thukral (2012): "Generating information measures via matrix over probability spaces", *International Journal of Pure and Applied Mathematics*, **81**(5), 723-735.
- V. Om Parkash and Mukesh (2013): "Relation between information measures and chi-square distribution" *International Journal of Pure and Applied Mathematics*, **84**(5), 517-524.
- VI. Om Parkash and Mukesh (2014): "Applications of information measures for the study of Gaussian distributions" *Canadian Journal of Pure and Applied Science*, **8**(1): 2795-2799.
- VII. Om Parkash and Mukesh (2014): "Directed divergence as a measure of similarity" *International Journal of Pure and Applied Mathematics*, **91**(2): 209-218.
- VIII. Om Parkash and Mukesh (2014): "Portfolio optimization using measures of cross entropy" *Canadian Journal of Pure and Applied Science*, **8**(2): 2963-2967.
- IX. Om Parkash, Mukesh and Radhey S. Singh (2015): "Applications of maximum entropy principle in formulating solution of constrained non-linear programming problem" *Journal of Statistical and Econometric Methods* **4**(2): 45-60.
- X. Om Parkash and Mukesh (2016): "Contribution of maximum entropy principle in the field of queueing theory" *Communications in Statistics-Theory and Methods* **45**(12): 3464-3472.

- XI. Om Parkash, Rakesh Kumar, Mukesh and Priyanka Kakkar (2019): “Weighted Measures and their correspondence with coding theory”, *JAC: A Journal of Composition Theory*, **XII** (IX), 1670-1680.
- XII. Om Parkash and Mukesh (2021): “Two New Parametric Entropic Models for Discrete Probability Distributions”, *Turkish Journal of Computer and Mathematics Education*, **12**(6), 2949-2954.
- XIII. Om Parkash and Mukesh Sarangal (2021): “Trigonometric Fuzzy Entropic Models and their Applications Towards Maximum Entropy Principle”, *J. Math. Comput. Sci.*, **11**(6), 6897-6909.
- XIV. Om Parkash and Mukesh Sarangal (2022): “Weighted Parametric Divergence Models for Discrete Probability Distributions”, *Gulf Journal of Mathematics*, **13**(2), 87-93.
- XV. Jaskiran Kaur, Manjit Singh and Mukesh (2023): “Infinite Dimensional Symmetry Group Reductions and Conservation Laws of Lin–Reissner–Tsien Equation”, *International Journal of Applied and Computational Mathematics*, **9**(5), 104.

b) Articles in conference Proceedings

- I. Om Parkash, Mukesh and A. K. Thukral (2010): “Measuring randomness of association through coefficient of non-determination”, *Advances in Information Theory and Operations Research*, VDM Verlag, 46-55.
- II. Om Parkash and Mukesh (2014): “A study of maximum entropy principle for queueing theory” *Mathematical Modeling and Applications*, Lambert Academic Publishers, 5-18.
- III. Om Parkash and Mukesh (2014): “Energy fluctuations in the canonical ensemble for the generalized entropy” *Mathematical Modeling and Applications*, Lambert Academic Publishers, 33-41.
- IV. Om Parkash and Mukesh (2015): “A study of distribution and fluctuations of energy for the generalized entropy” *Mathematical Modeling Optimization and Information Technology*, Lambert Academic Publishers, 15-28.

c) Books Published

- I) Mukesh Sarangal (2016): Information Theoretic Models and Applications: An Analytic Approach, Sudwestdeutscher Verlag fur Hochschulschriften. (ISBN No. 978-38381-5352-0).
- II) Mukesh Sarangal (2019): "A Text Book of Engineering Mathematics" Lambert Academic Publishing. (ISBN No. 978-620-0-08407-1)
- III) Mukesh Sarangal (2019): "Principle of Operations Research" Lambert Academic Publishing. (ISBN No. 978-620-0-09175-8)

TEACHING EXPERIENCE

S.No.	Name of Institution	Period of Job	Position
1.	MRSPTU Bathinda	Aug 2016- Till date	Assistant Professor
2.	Khalsa College Amritsar	Feb 2016-Aug 2016	Assistant Professor
3.	Guru Nanak Dev University Amritsar	July 2015- Jan 2016	Assistant Professor
4.	Guru Nanak Dev University College Verka Amritsar	July 2014- April 2015	Assistant Professor
5.	Beant college of Engg. And Tech., Gurdaspur.	Feb 2009-April 2009	Lecturer
6.	Govt. College, Gurdaspur.	Sept 2007- Feb 2008	Lecturer

PERSONAL DETAILS

Name	Mukesh
Father's Name	Sh. Karam Chand
Mother's Name	Smt. Sheela Devi
Permanent Address	Vill. Babowal, Jail Road Gurdaspur, Punjab
Date of Birth	March 10,1984
Nationality	Indian
Languages Known	English ,Hindi, Punjabi

PLACE : Bathinda

DR. MUKESH