



KUMAUN UNIVERSITY NAINITAL

Curriculum Vitae

1. **Name** : Dr. Deepak Kumar
- Father's Name** : Narendra Lal
- Department** : Mathematics, D. S. B. Campus,
Nainital
- Current Designation** : Assistant Professor (Senior Scale)
2. **Award** : Young Scientist Award
(International conference on Engineering science and medicine, Chennai, 12/11/2021)
3. **List of Publication (Last five years) (Total = 17)**

(A) Research Papers

1.	Deepak Kumar and S. B. Sigh, "Fuzzy reliability appraisal using interval valued intuitionistic hesitant fuzzy element and score function", International Journal of Reliability, Quality and Safety Engineering (IJQRSE), ISSN (online): 1793-6446, World Scientific, Vol. 28, No. 06, pp. 05 – 13 (2021), (Emerging Sources Citation Index ESCI, Scopus, IF 0.358).
2.	Deepak Kumar , S. B. Sigh and Pawan Kumar, "Fuzzy reliability appraisal of a system using probabilistic dual hesitant fuzzy element emphasizing score function", International journal of mathematics in operational research, ISSN online: 1757-5869, Vol. 21, No. 1, 2022, pp. 67-82, Inder science publisher, (Scopus, IF 0.461).

3.	Deepak Kumar , Anita Kumari, “Reliability appraisal of a system using interval-valued probabilistic dual hesitant fuzzy element”, <i>Materials Today: Proceedings</i> , Volume 57, Part 5, 2022, Pages 1995-2001, ISSN 2214-7853, (ScienceDirect, Elsevier) (Scopus, IF 0.445).
4.	Padam Singh, Deepak Kumar , Anita Kumari, “Effect of heat and mass transfer in nanofluid flow along a vertical thin needle”, <i>Materials Today: Proceedings</i> , Volume 57, Part 5, 2022, Pages 2276-2280, ISSN 2214-7853, (ScienceDirect, Elsevier) (Scopus, IF 0.445).
5.	Deepak Kumar , Pawan Kumar, Anita Kumari, “Reliability and mean time to failure of unrepairable systems using intuitionistic fuzzy random lifetimes “, <i>Advances and Applications in Mathematical Sciences (Mili Publications)</i> (2020), ISSN: 0974-6803,1337-1366, Volume 19, Issue 12, October 2020, Pages 1337-1366. (ESCI, I.F. 0.413)
6.	A. Kumari and D. Kumar , "New Applications in Computing Using Intuitionistic Fuzzy Set Approach," 2022 7th International Conference on Computing, Communication and Security (ICCCS), Seoul, Korea, Republic of, 2022, pp. 1-5, doi: 10.1109/ICCCS55188.2022.10079512, INSPEC Accession Number: 22885053, (Scopus indexed, IF 0.15).
7.	Supriya, S. Kumar and D. Kumar , "Fuzzy Reliability Evaluation Using Pythagorean Fuzzy Set Approach Emphasizing Score Function and Accuracy Function," 2022 7th International Conference on Computing, Communication and Security (ICCCS), Seoul, Korea, Republic of, 2022, pp. 1-6, INSPEC Accession Number: 22885053, doi: 10.1109/ICCCS55188.2022.10079557, (Scopus indexed, IF 0.15).
8.	J. Bhadauria, S. Rana, A. Kumari and D. Kumar , "Reliability analysis of different complex systems using intuitionistic trapezoidal fuzzy number," 2022 7th International Conference on Computing, Communication and Security (ICCCS), Seoul, Korea, Republic of, 2022, pp. 1-6, INSPEC Accession Number: 22885053, doi: 10.1109/ICCCS55188.2022.10079498, (Scopus indexed, IF 0.15).
9.	Kumar, D. , & Kumari, A. (2022) “Utilization of interval-valued intuitionistic fuzzy soft set in the health sector”, <i>International Journal of Health Sciences</i> , ISSN 2372-5060 6(S6), 8437–8444. https://doi.org/10.53730/ijhs.v6nS6.12135 . (Scopus, IF 0.2).
10.	Mintu Kumar, S.B. Singh and Deepak Kumar , " System reliability analysis based on Pythagorean fuzzy set”, <i>International journal of mathematics in operational research</i> , ISSN online: 1757-5869, Vol. 24, No. 2, 2022 pp. 253-285, Inder science publisher, (Scopus, IF 0.461).
11.	Jaya Bhadauria, A. Kumari and D. Kumar , “Fourier series for fuzzy valued function using heptadecagonal fuzzy number”, <i>European chemical bulletin</i> , ISSN 2063-5346 (Scopus indexed, IF 0.14) (Accepted, 2023).
12.	Supriya, Suneel kumar and Deepak kumar , “System reliability analysis of paper plant using boolean function based on weibull distribution and hexadecagonal fuzzy number”, <i>European chemical bulletin</i> , ISSN 2063-5346 (Scopus indexed, IF 0.14), (Accepted, 2023).
13.	S. Rana, D. Kumar and A. Kumari, " A novel approach for analysis fuzzy reliability of washing system using q-rung orthopair fuzzy set theory”, <i>International journal of mathematics in operational research</i> , ISSN online: 1757-5869, (Scopus, IF 0.461) (Accepted, 2023).

14.	S. Rana, D. Kumar and A. Kumari, " Tetracontatetragonal fuzzy number with application of fuzzy transportation problem", International journal of mathematics in operational research, ISSN online: 1757-5869, (Scopus, IF 0.461) (Accepted, 2023).
-----	---

(B) Chapters published in Books

S. No.	Title of Article/ chapter with page nos.	Title of the Book, Name of the Editor & Publisher, Date of Publication	ISSN/ISBN No.	Level of Publication: International / National
1	Fuzzy System Reliability Using Hesitant Fuzzy Element and Score Function Page No. 209	Advancements in Fuzzy Reliability Theory, Akshay Kumar (India), Mangey Ram (India) and Om Prakash Yadav(USA). IGI Global publisher, February, 2021	ISBN13: 97817998 75642	International (SCOPUS)
2	A Generalized Fixed Point Theorem on Partial b-Metric Spaces Page No. 377	Fixed Point Theory and its Applications to Real World Problems, Anita Tomar (India) and M C Joshi (India) NOVA Publication, May, 2021	ISBN: 97 8-1- 53619- 336-7	International (SCOPUS)
3	Evaluating Fuzzy System Reliability using a Time-Dependent Hexagonal Fuzzy Number	Advances in Soft Computing Applications, Edition First Published 2023 River Publishers (Tylor n Francis)	ISBN978 10034258 85	International (SCOPUS)

		Shristi Kharola, Mangey Ram, Sachin K. Mangla, Yigit Kazancoglu Pp 247-260		
--	--	---	--	--

4. Research Projects (Completed Projects / Consultancies): N/A

5. Books (Authored):

S. No.	Title of the Book	Name of the Authors & Publisher, Date of Publication	ISSN/ISBN No.	Level of Publication: International/ National
1.	Matrices, Trigonometry and Differential Calculus (Bilingual)	Dr. Deepak Kumar, Dr. Rudra Kumar Pandey, Thakur Publication, 2022	ISBN No. 9789354806414	National
2.	Fundamental Mathematics (Trigonometry and Vector Calculus)	Dr. Deepak Kumar, Dr. Pramod Joshi, Pragati Edition, 2022	ISBN No. 9789353317766	National
3.	Fundamental Mathematics (Theory of equations and Matrices)	Dr. Deepak Kumar, Dr. Pramod Joshi, Pragati Edition, 2022	ISBN No. 9789353317759	

6. Patents (Published)

S. No.	Title	Area/ Subject	Date of Award/ Publication date	Level (International/ National)	Application No./ Reference Number	Sponsoring Agency
1.	Multi-criteria decision making based on intuitionistic fuzzy sets	Fuzzy set analysis/ Mathematics	11/02/2022	National	202211003444 A	Controller of Patents, The Patent Office, at Mumbai, Delhi, Chennai, Kolkata (GOI)
2.	A computational method for financial time series forecasting based on hesitant fuzzy sets	Fuzzy set analysis/ Mathematics	07/07/2023	National	202311039817A	Controller of Patents, The Patent Office, at Mumbai, Delhi, Chennai, Kolkata (GOI)

Date: 03/08/2023