Curriculum Vitae

AUPARAJITA KRISHNAA

Academic Qualifications

Degree/ Qualification	Board/ University	Year	Subject	Division/ CGPA
Secondary (X)	CBSE (Central School, Udaipur)	1983	All	1st
Sr. Secondary	CBSE (Central School Udaipur)	1985	Maths, Physics, Chemistry	1st
B.Sc.	Mohanlal Sukhadia University, Udaipur	1987	Maths, Computer, Science, Physics	1st
M. Sc. (Computer Application in Agr.)	Indian Agricultural Statistical Research Institute (I.A.S.R.I.), New Delhi	1990	Computer Science	3.63/4.00
M.S. (Mathematical Sciences)	Clemson University, Clemson, USA	1993	Mathematics	3.50/4.00

Ph.D.	Mohanlal Sukhadia University, Udaipur	2003	Mathematics	Not applicable

Theses done during Masters and Ph.D.

1.   M. Sc.: "Graphical Representation in Information Systems".

2.   M.S.: "Labellings of Graph".

3.   Ph.D.: "On the Study of Computer Modelling in Graph Theory".

Fellowships/ Scholarships Awarded

1.   Fellowship awarded for M.Sc. at Indian Agricultural Statistical Research Institute, New Delhi.

2.   Research Assistantship awarded in Computer Science at Technical University of Nova Scotia, Halifax, Canada.

3.   Teaching Assistantship awarded for M.S. at Clemson University, Clemson, USA.

Professional Experience

1.   Research in Computer Science at Technical University of Nova Scotia, Halifax, Canada (January, 1991-December, 1991).

2.   Teaching Mathematics in Clemson University, Clemson, USA (January, 1992-December-1993).

3.   Software Developer at American College of Surgeons, Chicago, USA (Head Quarters) (January, 1995-June, 1997).

4.   Teaching Mathematics, Computer Science in postgraduate and undergraduate classes at Mohanlal Sukhadia University, Udaipur (2000-2011).

5.   Assistant Professor (Mathematics) at Department of Mathematics and Statistics, Mohanlal Sukhadia University, Udaipur (February, 2012- present).

Publications : 28 (Twenty eight)

Please see enclosed pages for list of publications. Of the listed publications, several are included in the University Library catalogues at Stanford University, USA, University of California at Berkeley, USA, Cambridge University, UK, Sorbonne University, France etc. The research works can be searched by typing the author's name in the relevant field of the university website on the internet. Many of the research works are calalogued in the libraries of institutions/universities of different countries.

Publications

Auparajita Krishnaa

1. Auparajita Krishnaa (2001), "Computer Modelling of Graph Labelings", Proceedings, *National Conference on Mathematical and Computational Models*, Coimbatore, 2001, Allied Publishers.

2. Auparajita Krishnaa (2004), A Study of the Major Graph Labelings of Trees, *Informatica*,15(4), 515-524; Institute of Mathematics and Informatics, Lithuanian Academy of Sciences, Vilnius, Lithuania.

3. Auparajita Krishnaa, M.S. Dulawat and G.S. Rathore (2004), "A Study on Statistical Analysis of Antimagic Graph Labellings", *J. of Rajasthan Academy of Physical Sciences* , 3(2), 111-120.

4. Auparajita Krishnaa, M.S. Dulawat and M.N. Das (2004), "On Algorithms and Software Making for Some Problems in Combinatorics", *Statistics and Applications*, 2(2), 47-55.

5. Auparajita Krishnaa M.S. Dulawat M.S. and G.S. Rathore (2005), "Some Patterns in Graph Labellings", *Pure and Applied Mathematika Sciences*, vol. LXI, no. 1-2, 61-65.

6. Auparajita Krishnaa and M.S. Dulawat (2006), Algorithms for Inner Magic and Inner Antimagic Labelings of Some Planar Graphs, *Informatica*, 17(3), 393-406 , Institute of Mathematics and Informatics, Lithuanian Academy of Sciences, Vilnius, Lithuania.

7. Auparajita Krishnaa and M.S. Dulawat, (2006), "Labellings of Paths", *J. Rajasthan Academy of Physical Sciences*, 5(1), 99-104

8. Auparajita Krishnaa and M.S. Dulawat (2007), "Algorithms and Programs for Some Problems in Graph LAbellings, Operations Research and Combinatorics", *Mathematics and System Sciences*, 3(1), 99-104.

9. Auparajita Krishnaa and M.S. Dulawat (2009), "Lexicographic Ordering in Graph Labeliings of Cycles, Paths and Complete Bipartite Graphs", *South East Asian Journal pof Mathematics and Mathematical Sciences,* 7(2),87-93.

10. Auparajita Krishnaa and M.S. Dulawat (2011), "Study of Effect of Repeated Vertex Labels", *Ultra Scientist of Physical Sciences*, 23(1), 176-180.

11. Auparajita Krishnaa (2011), " A Note on Perception of Definitions in Graph Labellings of Trees", *J. Computer and Mathematical Sciences*, 2(3), 254-259.

12. Auparajita Krishnaa (2011), " A Note on a Graph Labelling Scheme and Its Computational Complexity", *J. Computer and Mathematical Sciences,* 2(3), 521-524.

13. Auparajita Krishnaa (2012), "On the use of Computers in Graph Labeling", *International Journal of Computer Science and Communication*, 3(1), 191-197.

14. Auparajita Krishnaa (2012), "On Antimagic Labelings of Some Cycle related Graphs", *Journal of Discrete Mathematical Sciences and Cryptography*, 15(4 & 5), 225-235, Taylor and Francis.

15. Auparajita Krishnaa (2013), "A Note On Some Thoughts on the Graceful Tree Conjecture", *Journal of Discrete Mathematical Sciences and Cryptography*, 16(6), 387-392, Taylor and Francis.

16. Auparajita Krishnaa (2016), "Formulas and Algorithms of Antimagic Labelings of Some Helm Related Graphs", *Journal of Discrete Mathematical Sciences and Cryptography*, 19(2), 425-434, Taylor and Francis**.**

17. Auparajita Krishnaa (2016), "Some Applicationa of Labelled Graphs", *International Journal of Mathematics Trends and Technology*, 37(3), 19-22.

18. Auparajita Krishnaa (2018), "An Example Usage of Graph Theory in Other Scientific Fields : On Graph Labelings, Possibilities and Role of Mind/Consciousness", Chapter in book titled *"Graph Theory : Advanced Algorithms and Applications"*, IntechOpen, London, UK.

19. Auparajita Krishnaa (2019), "Inner magic and inner antimagic graphs in cryptography", *Journal of Discrete Mathematical Sciences and Cryptography*, 22(6), 1057-1066, Taylor and Francis.

20. Auparajita Krishnaa (2021), "Certain Specific Graphs in Cryptography", Advances and Applications in Discrete Matahematics, 26(2), 157-177

21. Dharmendra Kumar Gurjar and Auparajita Krishnaa (2021), "Lexicographic Labeled Graphs in Cryptography", Advances and Applications in Discrete Matahematics, 27(2), 209-232

22. Dharmendra Kumar Gurjar and Auparajita Krishnaa (2021), "Labeled Paths in Cryptography", Chapter in Book series titled Advances in Mathematics Research, volume 29, Nova Science Publishers, USA.

23. Dharmendra Kumar Gurjar and Auparajita Krishnaa (2021), "Complete Graph and Hamiltonian Cycle in Encryption and Decryption", International Journal of Mathematics Trends and Technology, 67(12), 42-51).

24. Dharmendra Kumar Gurjar and Auparajita Krishnaa (2022), "Balanced Bipartite Graphs in Cryptography", Indian Journal of Scientific Research, 12(2), 35-40

25. Dharmendra Kumar Gurjar and Auparajita Krishnaa (2022), "Unequal Partite Sets in Bipartite Trees With Use of Linear Algebra in Cryptography", Indian Journal of Scientific Research, 12(2), 73-82

26. Dharmendra Kumar Gurjar and Auparajita Krishnaa (2022), "Various Antimagic Labeled Graphs from Graph Theory for Cryptography Applications", International Journal of Scientific Research in Mathematical and Statistical Sciences, 9(3), 11-18.

27. Auparajita Krishnaa (2022), "Lattices in Cryptology", Aryabhatta Journal of Mathematics and Informatics, 14(1), 111-124.

28. Auparajita Krishnaa and Dharmenddra Kumar Gurjar (2023), "The Concept of Basic Cipher Text for Enhancing Security in the Algorithms of Cyrptography Applications Using Labelled Graphs", International Journal of Scientific Research in Mathematical and Statistical Sciences, 10(3), 09-13.