




Faculty Details proforma for DU Web-site

Title	Prof./Dr./Mr./Ms./Mrs.	First Name		Last Name		Photograph
Designation	Associate Professor					
Address	Department of Computer science, University of Delhi. (505, Patel C G H S , Sector 4, Plot \$, Dwarka , New delhi-110075.)					
Phone No	Office	27667591				
	Residence					
	Mobile	9810480076				
Email	skmuttoo@cs.du.ac.in					
Web-Page						
Educational Qualifications						
Degree	Institution				Year	
Ph.D.	Delhi University				1982	
M.Phil. / M.Tech.	IIT KHARAGPUR				1990	
PG M.Sc.	Delhi University				1976	
UG B.Sc.	Delhi University				1974	
Any other qualification						
Career Profile						
<ol style="list-style-type: none">30th August, 1991 – till date: Associate Professor, University of Delhi, 28th July, 1982 to 30th August, 1991 Lecturer, Sr. Lecturer in Mathematics ,S.G.T.B. Khalsa College University of Delhi, Delhi. 20th October, 1978 to 28th July, 1982 Lecturer, in Mathematics in various colleges of Delhi University.Examiner of Ph. D., M.Tech. thesis of JNU, Delhi, IIT Delhi, Madras University, BRAU, Agra.Member of UGC NET Committee, 2015.						
Administrative Assignments						
Head of the Department since 30 th October, 2013						
Areas of Interest / Specialization						
Information Security						
Subjects Taught						
Information Security, Special topics in Information Security. Computer Graphics,						
Research Guidance						

List against each head (If applicable)

1. Supervision of awarded Doctoral Thesis 4
2. Supervision of Doctoral Thesis, under progress 1
3. No of students registered 5

Publications Profile

PUBLISHED IN PEER REVIEWED JOURNALS

1. Sunil Kumar Muttoo, Kumar Vinay. Bansal Abhishek“ Steganography using solution of 8 queen’s problem” International Journal of Signal Processing, Image Processing and Pattern Recognition Vol.7, No.5 , pp.47-58, 2014.
2. Bhavya Ahuja, S.K. Muttoo, Deepika Aggarwal,”Analysis of effect of varying quantization level on the image communication scheme based on combination of compression, cryptography and steganography”, International Journal of Enhanced Research in Management & Computer Applications, Vol. 3 Issue 2, pp: (30-36), 2014.
3. MK Bhatia, SK Muttoo, MPS Bhatia Secure Requirement Prioritized Grid Scheduling Model International Journal of Network Security 15 (6), 478-483 2013.
4. S Kumar, SK Muttoo Image Steganography Based on Complex Double Dual Tree Wavelet Transform.International Journal of Computer & Electrical Engineering 5 (2) 2013.
5. S Kumar, SK Muttoo A comparative study of image steganography in wavelet domain International Journal of Computer Science and Mobile Computing, IJCSMC Issue 2 2013.
6. M Bhatia, SK Muttoo, MPS Bhatia Secure Group Communication with Hidden Group Key Information Security Journal: A Global Perspective 22 (1), 21-34 2013.
7. SK Muttoo Data Security Mass Communicator: International Journal of Communication Studies,7(1),39-40 , 2013.
8. S Kumar, SK Muttoo Image Steganography Based on Wavelet Families International Journal of Electronic Security and Digital Forensics 5 2013.
9. V Gaur, A Soni, SK Muttoo, N Jain “Comparative analysis of Mamdani and Sugeno inference systems for evaluating inter-agent dependency requirements” J Comput Eng Inf Technol 2, 2013.
10. SK Muttoo Abdul Satar A NEW STEGO-SYSTEM BASED ON LFSR GENERATOR International Journal of Engineering and Innovative Technology (IJEIT), Vol. 1 Issue 1. 2012.
11. Kumar, Vinay, Muttoo, S.K., Bansal Abhishek ‘Hiding Information in Vector Layer while Extracting Layer from Raster Data ‘Information Security Journal: A Global Prespective’ Vol. 21, Issue 6, 2012.
12. Kumar, V. and Muttoo, S.K., 'A Graph Theoretic Approach to Sustainable Steganography', Int. J. of Taiwan , Vol.17, No.1. 2011.
13. Sushil Kumar and S.K. Muttoo “ Steganography based on Counterlet Transform”, Bharti Vidyapeeth International Journal of Information Technology. Vol. 9 No. 6, June 2011.
- 14 S.K. Muttoo and Sushil Kumar,”A multilayered secure, robust and high

- capacity image steganographic algorithm” World Computer science and IT Jr. Vol. No.,pp 2011.
5. Muttoo, S.K. and Kumar, V., 'Hamiltonian Graph Approach to Steganography'. International Journal of Electronic Security and Digital Forensic, Inderscience, Vol.3, No.4, pp 311–332 2010
 5. Muttoo, S. K. and Kumar, V., 'Hiding Message in Map along pre Hamiltonian Path'. Int.J. of information Security and Privacy, Idea Group USA, Vol.4, No.4,pp.21-34. (2010).
 7. Kumar, V. and Muttoo, S.K.,(2010), 'Graph Theoretic Approach to Steganography to Secure Message Digest'. Information Security Journal: A global perspective, Taylor & Francis, Vol.19, No.6, pp.328-335.
 8. Kumar, V. and Muttoo, S.K.,(2009), 'Principle of Graph Theoretic Approach to Digital Steganography'. Proceedings of the Third INDIACOM National Conference, February, New Delhi, pp.161-165.
 9. Kumar, V. and Muttoo, S.K.,(2008), 'Relevance of Steganography' in General, and Graph Theoretic Approach in particular, in Indian Security Concern and Measure'. Proceedings' of the Second INDIACOM National Conference, February, New Delhi, pp.183-188.
 10. Vinay Kumar and S K Muttoo 'A data structure for graph To facilitate hiding of information in a graph's segments—a graph theoretic approach to steganography' Int. J. Communication Networks and Distributed Systems, Vol. 3, No. 3, pp 268-282, 2009.
 11. S.K. Muttoo and Sushil Kumar, 'Robust Source coding Steganographic technique using Wavelet transforms', Bharti Vidyapeeth International Journal of Information Technology. Vol. 1 No. 2, July 2009.
 12. S.K. Muttoo and Sushil Kumar, 'Data hiding in JPEG images' International Journal of Information Technology (IJIT), Vol 1,pp- 13-16,2009.
 23. S.K.Muttoo, Manoj Rana, 'A note on dual generalized Reed- Muller code of order $r+(r+1)m,s$ Invertis Journal of Science & Technology Vol. 2, No.3, pp. 67-76 2008.
 24. S.K.Pal, P.K.Saxena and S.K.Muttoo 'Designing Secure & Survivable Stegosystems', Defence Science Journal, Vol. 56, No.-2, April 2006, pp. 239-250.
 25. S.K.Pal, P.K.Saxena and S.K.Muttoo, 'Steganography & Watermarking of Digital Images Using Singular Value Decomposition', Journal of Discrete Mathematical Sciences and Cryptography, Vol. 8, No.3, December 2005, pp. 343-353.

Conference Organization/ Presentations (in the last three years)

1. R Gupta, SK Muttoo, SK Pal “Proposal for Integrated System Architecture in Utilities”3rd International Conference on Advances in Computing, Communications and Informatics, IEEE- Explore ,pp 1995-1998, 2014.
2. Rajan Gupta, S.K. Muttoo, S.K. Pal “Awareness, Adoption and Acceptance of e-Government Services in India”Proceedings of International Conference on Research in Marketing (ICRM 2013) -A Refereed International Conference,ICRM-PS2/1-11, Published by IIT D, XLRI, Curtin University(ISBN 9781630419981),2013. Rajan Gupta, S.K. Muttoo, S.K. Pal, “Analysis of Information Systems Security for e-Governance in India” Proceedings of National Workshop on Cryptology, TSII17- 25, Publisher:

DESIDOC, DRDO and CRSI ,2013
3. S Verma, SK Pal, SK Muttoo “ A new tool for lightweight ` encryption on android “ Advance Computing Conference (IACC), 2014 IEEE International, 306-311, 2014
4. M Bhatia, SK Muttoo, MPS Bhatia” Steganography-Based Secure Communication Proceedings of the Second International Conference on Soft Computing 2014
5. Sushil Kumar and S.K. Muttoo, “An Overview on Wavelet-like Transforms in Image Data Hiding”, Proceeding of the National Conference on computing for Nation Development, 2010, New Delhi, Feb. 25-.26, pp. 263-268
6. Sushil Kumar and S.K. Muttoo, “Data Hiding techniques based on Wavelet-like Transform and Complex Wavelet Transform”, International Symposium on Intelligence Information Processing and Trusted Computing, IPTC 2010, Huanggang, China, Oct. 28-29, 2010, published in IEEE Xplore
7. Sushil Kumar and S.K. Muttoo, “Image Steganography based on Complex Double Dual Tree Wavelet Transform”, 3rd International Conference on Signal Acquisition and Processing (ICSAP 2011), Singapore, Feb.26-28, 2011
8. Sushil Kumar and S.K. Muttoo, “Steganography based on Contourlet Transform”, International Journal of Computer Science and Information Security (<i>IJCSIS</i>), Vol. 9 o. 6, June 2011
9. Sushil Kumar and S.K. Muttoo , “Image steganography based on Complex Wavelet Transform”, 2 nd National Conference on Software Engineering and Information Security (NCSEIS10), Acropolis Institute of Technology and Research, Indore,India, 23-24 December, 2010, IEEE Computer Society sponsored, pp.147-151.
Research Projects (Major Grants/Research Collaboration)
VC ‘s Research Grant 2014-15
Awards and Distinctions
Recipient of
(i) ISRO Research Fellowship for Ph. D.
(ii) Minor Research Grant from UGC
(iii) Cross Migration Scheme Fellowship for M.Tech.
(iv) Delhi University VC ‘s Research Grant from 2007to 2015
Association With Professional Bodies
Life member of Computer Society of India
Life member of Cryptographic Society of India
Member of ACM
Other Activities

Convener - CBCS committee for Computer Science, 2015