Title	**Dr.**	First Name	Vasudha	Last Name	Bhatnagar	Photograph

Designation	Professor
Address	107, Department of Computer Science Faculty of Mathematical Sciences New Academic Block University of Delhi Delhi-110007.
Phone No Office	91-11-27667591 ext.107
Residence	
Mobile	
Email	vbhatnagar@cs.du.ac.in
Web-Page	Http:/people.du.ac.in/~vbhatnagar/

Educational Qualifications

Degree	Institution	Year
Ph.D.	Jamia Millia Islamia	2001
M.Phil. / M.Tech.		
Master of Computer Applications	Department of Computer Science, University of Delhi	1985
B.Sc.(Hons) Mathematical Statistics	University of Delhi	1982

Career Profile

Sept 2014 – to date : Professor, Department of Computer Science, University of Delhi.
Sept 2012 – Sept 2014 : Visiting Associate Professor, Department of Computer Science, South Asian University, New Delhi.
Jan 2009 – Sept 2012: Professor, Department of Computer Science, University of Delhi.
2002 – Dec 2008: Associate Professor, Department of Computer Science, University of Delhi.
1989-2002 : Lecturer/Reader, Department of Computer Science, Motilal Nehru College, University of Delhi.
1985-1989: Software Engineer, Centre for Development of Telematics, Govt. of India.

Areas of Interest / Specialization

My broad area of interest is Data Analytics. I am interested in classification and clustering ensembles, mining of data streams, discovery of time changing patterns. I am currently working on network analytics problem like comparison of networks, evolution of networks, application of social theories social network analysis, evolution of networks. I also study problems in text analytics.

Subjects Taught

Underline Undergraduate Level
Programming Fundamentals, Data Structures, Operating Systems, Computer System Architecture, Database Management Systems

Postgraduate
Operating Systems, Unix Internals, Data Mining, Advanced Classification, Mining of Data Streams, Projected Clustering, Systems Programming, Graph Analytics

Research Guidance

PhD Awarded
1. Ahmed-Al-Hegami (2006): " On Quantification of Novelty in Knowledge Discovery Process" (jointly with Dr. Naveen Kumar)
2. Sarabjeet Kochhar (2010): "Towards Characterization of the Data Generation Process in Evolving Databases"

3. Sharanjit Kaur (2011) : "Leveraging Grid Structure for Clustering of Data Streams"

4. Sangeeta Ahuja (2013) : "Novel Algorithms for Cluster Ensembles and their Applications"

5. Anamika Gupta (2013): "Mining Association rules using Formal Concept Analysis" (jointly with Dr. Naveen Kumar)

PhD submitted
6. Manju Bharadwaj : " Design and Comparitive Analysis of Classification Ensembles" (jointly with Dr. Debashish Dash)

PhD under progress
7. Rakhi Saxena : Network Analytics (jointly with Dr. Sharanjit Kaur)

8. Swagata Duari : Text Analytics

9. Alka Khurana : Text Analytics

Publications Profile (Last five years)

Volumes Edited

1. Srinath Srinivasa, Vasudha Bhatnagar (Editors), Big Data Analytics, Proceedings Series - Lecture Notes in Computer Science, Vol. 7678, 2012, Springer.

2. Vasudha Bhatnagar, Srinath Srinivasa (Editors), Big Data Analytics, Proceedings Series - Lecture Notes in Computer Science, Vol. 8302, 2013, Springer.

3. Naveen Kumar, Vasudha Bhatnagar (Editors), Big Data Analytics, Proceedings Series - Lecture Notes in Computer Science, Vol. 9498, 2015, Springer

Book Chapters
1. Sharanjit Kaur, Vasudha Bhatnagar, Sharma Chakravarthy, Stream Clustering Algorithms: A Primer, Big Data in Complex Systems: Challenges and Opportunities, pp. 105-145, Big Data series, Springer-Verlag (2015)

Research papers published in Refereed/Peer Reviewed Journals

1. Sharanjit Kaur, Rakhi Saxena, Dhriti Khanna, Vasudha Bhatnagar, Data Aware Algorithm for Scalable Clustering, Knowledge and Information Systems (2016)
2. Manju Bhardwaj, Kapil Sharma, Vasudha Bhatnagar, Cost effectiveness of Classification Ensembles, Pattern Recognition, (Elsevier) 2016 http://dx.doi.org/10.1016/j.patcog.2016.03.017,
3. M Bhardwaj, V Bhatnagar, Towards an optimally pruned classifier ensemble, International Journal of Machine Learning and Cybernetics, Volume 6, Issue 5, pp 699-718, October 2015, Springer Berlin Heidelberg.
4. Khalid Alhamazani, Rajiv Ranjan, Karan Mitra, Fethi A. Rabhi, Prem Prakash Jayaraman, Samee Ullah Khan, Adnene Guabtni, Vasudha Bhatnagar, An overview of the commercial cloud monitoring tools: research dimensions, design issues, and state-of-the-art. Computing 97(4): 357-377 (2015).
5. Vasudha Bhatnagar, Sangeeta Ahuja, Sharanjit Kaur, Discriminant Analysis based Cluster Ensemble, International Journal for Data Mining, Modeling and Management 7(2): 83-107 (2015).
6. Vasudha Bhatnagar, Manju Bharadwaj, Sufyan Haroon, Shivam Sharma, Accuracy-Diversity based Classifier Ensemble, Progress in Artificial Intelligence 2 (2-3), 97-111 (2014), Springer Berlin Heidelberg.
7. Rishi Das Roy, et al., How do eubacterial organisms manage aggregation-prone proteome?, F1000Res. 2014; 3, Published online Jun 27, 2014. doi: 10.12688/f1000research.4307.1
8. Vasudha Bhatnagar, Sharanjit Kaur , Sharma Chakravarthy, Knowledge and Information Systems, Volume 41, Issue 1, pp 127-152, (2014), Springer-Verlag.

Research papers published in Refereed/Peer Reviewed Conferences

1. R Saxena, S Kaur, D Dash, V Bhatnagar, Leveraging Hierarchy and Community Structure for Determining Influencers in Networks, To appear in proceedings of DaWak 2017
2. R Saxena, S Kaur, D Dash, V Bhatnagar, Leveraging Structural Hierarchy for Scalable Network Comparison, International Conference on Database and Expert Systems Applications,2016, 287-302.
3. Manju Bhardwaj, Debasis Dash, Vasudha Bhatnagar: Accurate Classification of Biological Data Using Ensembles. ICDM Workshops 2015: 1486-1493

4. Sharanjit Kaur, RakhiSaxena, Dhriti Khanna, Vasudha Bhatnagar, Comparing Data Processing Frameworks for Scalable Clustering, Accepted in FLAIRS 2014, to be held during 21-23 May 2014, Florida.
5. Aditi Mittal, Abhishek Santra, Vasudha Bhatnagar, Dhriti Khanna, Exploratory Analysis of Light Curves: A Case-study in Astronomy, (Invited Paper), LNCS 8381, 9th International Workshop on Databases in Networked Information Systems (DNIS 2014), 24-26 March 2014, University of Aizu, Japan.
6. Sharanjit Kaur, Dhriti Khanna, Tripti Gupta, Vasudha Bhatnagar, Scalable Clustering Using PACT Programming Model, In Proceedings of IEEE ICDMW – KDCloud12, Brussels, 10 Dec 2012.
7. Vasudha Bhatnagar, RashmiDobariyal, Priya Jain, Ashish Mahabal, Data Understanding Using Semi-Supervised Clustering, In Proceedings of 4th International Conference on Intelligent Data Understanding, 24th -26th October 2012, Colorado, US.
8. Anamika Gupta,Naveen Kumar, Vasudha Bhatnagar , Mining of Multi-objective Non-Redundant Association Rules in Data Streams, In Proceedings of 11th International Conference on Artificial Intelligence and Soft Computing Web System, Zakopane, Apr 29-May 3, 2012.
9. Naveen Kumar, Anamika Gupta, Vasudha Bhatnagar, Lattice Based Associative Classifier, In Proceedings of 4th Asian Conference on Intelligent Information and Database System , to be held in Taiwan, Mar 19-21, 2012.

Conference Organization/ Presentations (in the last five years)

Conference Organization

1. International Conference on Big Data Analytics, IIT Delhi, Dec 2014

2. International Conference on Big Data Analytics, University of Delhi, Dec 24-26 2012.

Research Projects (Major Grants/Research Collaboration)

Co-investigator in a MIT project "Intrusion Detection using Soft Computing" (Feb 2005-May2007).

Awards and Distinctions

Obtained 2nd rank in the University in Bsc (H)

Association With Professional Bodies:

Memberships:
1. Life member - Computer Society of India
2. Member - Association for Computing Machinery (ACM)

Other Activities

Academic (last five years)

1. I am an IUCAA associate since 2008.
2. Involvement in Curriculum Design exercises, Guidelines preparation and Model Question Paper designing and other activities of the department related to MCA, M.Sc (Computer

Sc.)., B.Sc.(Hons) Computer Science, B.Sc Programme, BA Programme courses in University of Delhi

3. PC Co-Chair International Conference on Big Data Analytics, 2012, 2013, 2015 New Delhi,
4. PC Member in international conferences/workshops - WISEW02, IDEAS06, COMAD06, IDEAS 2007, ISCSS 2007, IBM ICARE09, EXP 09, ICM2CS09, ITBI10, PAKDD10, IDEAS10, IC32010, IDEAS11, DNIS12, BDA2012, BDA2013, BDA2015, BDA2015, DaWaK12-15,
5. Supervision of Msc research projects and MCA projects
6. Reviewer for KAIS: International Journal (Springer), Journal of DMKD (Springer), International Journal of Data Mining, Modeling and Management (InderScience).
   Organized Environment workshop (2010), Security workshop (2012) for students

Administrative

- Head, Department of Computer Science, Nov 2016 onwards
- Placement Advisor (2016-17)
- Nodal Officer for NAAC review (2015-16)
- Head, Department of Computer Science (Oct 2011 – Sept 2012)
- Faculty Advisor for student society in the department. (2005-2011)
- Secretary, Departmental Research Committee (2011-12)
- Convenor, Purchase Committee (2010-11)
- Coordinator – UG Courses in Computer Science/ Applications in Delhi University (2003-2012)