



Title	Dr.	First Name	Vasudha	Last Name	Bhatnagar	Photograph
Designation		Professor				
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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						
<p>Jan 2009 – 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. 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.</p>						
Areas of Interest / Specialization						
<p>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.</p>						

<p>Subjects Taught</p> <p><u>Undergraduate Level</u></p> <p>Programming Fundamentals, Data Structures, Operating Systems, Computer System Architecture, Database Management Systems</p> <p><u>Postgraduate</u></p> <p>Operating Systems, Unix Internals, Data Mining, Advanced Classification, Mining of Data Streams, Projected Clustering, Systems Programming, Graph Analytics</p>
<p>Research Guidance</p> <p><i>PhD Awarded</i></p> <ol style="list-style-type: none"> 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) 6. Manju Bharadwaj (2018): "Design and Comparative Analysis of Classification Ensembles" <p><i>PhD under progress</i></p> <ol style="list-style-type: none"> 7. Rakhi Saxena : Network Analytics (jointly with Dr. Sharanjit Kaur) 8. Swagata Duari : Text Analytics 9. Alka Khurana : Text Analytics 10. Divya Kwatra : Network Analytics
<p>Publications Profile (Last five years)</p> <p><i>Volumes Edited</i></p> <ol style="list-style-type: none"> 1. <i>Vasudha Bhatnagar</i>, Srinath Srinivasa (Editors), Big Data Analytics, Proceedings Series - Lecture Notes in Computer Science, Vol. 8302, 2013, Springer.

2. Naveen Kumar, *Vasudha Bhatnagar* (Editors), Big Data Analytics, Proceedings Series - Lecture Notes in Computer Science, Vol. 9498, 2015, Springer
3. VB Aggarwal, Durgesh Kumar Mishra, *Vasudha Bhatnagar*(Editors), Big Data Analytics (Proceedings of CSI 2015), 2018, Springer

Book Chapters

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

Research papers published in Refereed/Peer Reviewed Journals

1. Rakhi Saxena, Sharanjit Kaur, *Vasudha Bhatnagar*, [Social centrality using network hierarchy and community structure](https://doi.org/10.1007/s10618-018-0582-x), Data Mining and Knowledge Discovery, <https://doi.org/10.1007/s10618-018-0582-x>, (IF: 2.481)
2. *V Bhatnagar*, S Kaur, R Saxena, D Khanna, (2017), [DASC: data aware algorithm for scalable clustering](#), Knowledge and Information Systems 50 (3), 851-881, (IF: 2.004), Springer.
3. M Bhardwaj, *V Bhatnagar*, K Sharma, (2016), [Cost-effectiveness of classification ensembles](#), Pattern Recognition 57, 84-96, Elsevier, (IF: 4.582).
4. M Bhardwaj, *V Bhatnagar*, (2015), [Towards an optimally pruned classifier ensemble](#), International Journal of Machine Learning and Cybernetics 6 (5), 699-718, Springer (IF: 1.699).
5. *Vasudha Bhatnagar*, Sangeeta Ahuja, Sharanjit Kaur, (2015), [Discriminant Analysis based Cluster Ensemble](#), Int'l Journal for Data Mining, Modeling and Management 7(2), 83-107, Inderscience.
6. *Vasudha Bhatnagar*, Manju Bharadwaj, Sufyan Haroon, Shivam Sharma, (2014), [Accuracy-Diversity based Classifier Ensemble](#), Progress in Artificial Intelligence 2 (2-3), 97-111 , Springer.
7. K Alhamazani et al., (2014), [An Overview of the Commercial Cloud Monitoring Tools: Research Dimensions, Design Issues, and State-of-the-Art; Computing](#), 1-21, (IF:1.589), Springer.
8. *Vasudha Bhatnagar*, Sharanjit Kaur , Sharma Chakravarthy, (2014), [Clustering Data Streams using grid-based synopsis](#), Knowledge and Information Systems 41 (1), 127-152, (IF: 2.004), Springer

Research papers published in Refereed/Peer Reviewed Conferences

<ol style="list-style-type: none"> 1. Rakhi Saxena, Sharanjit Kaur, Vasudha Bhatnagar, Leveraging Hierarchy and Community Structure for Determining Influencers in Networks, In Proceedings of 19th International Conference, DaWaK 2017, LNCS, volume 10440, pp. 383-390. 2. 3. Rakhi Saxena, Sharanjit Kaur, Debashish Dash, Vasudha Bhatnagar, Leveraging Hierarchy for Scalable Network Comparison, In Proceedings of DEXA 2016, pp 287-302 4. Manju Bhardwaj, Debasis Dash, Vasudha Bhatnagar: Accurate Classification of Biological Data Using Ensembles. ICDM Workshops 2015: 1486-1493 5. Sharanjit Kaur, Rakhi Saxena, Dhriti Khanna, Vasudha Bhatnagar, Comparing Data Processing Frameworks for Scalable Clustering, Accepted in FLAIRS 2014, to be held during 21-23 May 2014, Florida. 6. Aditi Mittal, Abhishek Santra, <i>Vasudha Bhatnagar</i>, 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.
Conference Organization/ Presentations (in the last five years)
<p>Conference Organization</p> <ol style="list-style-type: none"> 1. International Conference on Big Data Analytics, IIT Delhi, Dec 2014 <p>Tutorial Presentations and Invited Talks</p> <ol style="list-style-type: none"> 2. Swagata Duari, Aditya Gupta, Vasudha Bhatnagar, Unsupervised Keyword Extraction from Single Document, 5th International Conf. on Big Data Analytics, 13-15 Dec 2017, Hyderabad, India. 3. Network Science: Foundation of Social Network Analysis, Conference on Software Engineering and Data Sciences, University of Kashmir, Srinagar, 20-21 Jun 2018 4. Introduction to Text Analytics at National Workshop on Machine Learning organized by Deen Dayal Upadhyaya College, New Delhi, on December 27, 2017. 5. Text Analytics - An Introduction at a Faculty Development Program on “Big Data Analytics” organized by Geethanjali College of Engineering and Technology, Hyderabad, on November 29, 2017. 6. <i>Text Analytics</i> at Faculty Development Program on “Data Sciences and Machine Learning” organized by Bharati Vidyapeeth’s College of Engineering, New Delhi, on November 10, 2016.
Research Projects (Major Grants/Research Collaboration)
<ol style="list-style-type: none"> 1. University of Delhi, Annual Research Project Grant (2007 – 2012, 2016-17) 2. Co-investigator in a MIT project “Intrusion Detection using Soft Computing” (Feb 2005-May2007)

3. UGC Minor Research Project, 1999-2001
Awards and Distinctions
Obtained 2 nd rank in the University of Delhi, in Bsc (H)
Association With Professional Bodies:
<p><i>Memberships:</i></p> <ol style="list-style-type: none"> 1. Life member - Computer Society of India 2. Member - Association for Computing Machinery (ACM)
Other Activities
<p><u>Academic</u></p> <ol style="list-style-type: none"> 1. I have an IUCAA associate 2008-2014. 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, 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, BDA17, 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). <p><u>Administrative</u></p> <ul style="list-style-type: none"> • Head, Department of Computer Science (Nov 2016 onwards) • Placement Advisor, (2016-17) • 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)

Signature of Faculty Member