<u>**Faculty Profile**</u>

Name: Dr. Sakshi Arora

Designation: Assistant Professor

Department: Department of Computer Science & Engineering

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Contact Number and Extn.: 01991285696 - 2310

Qualification: Ph.D. , MCA

Experience:

Teaching:	Research:	Administration:	Total:
12	10	-	12

<u>**Areas of Interest / Specialization:**</u>

1. Machine Learning
2. Image Processing

<u>**Brief Bio-data:**</u>

***Dr. Sakshi Arora**, has PhD in Computer Science Engineering from Department of Computer Science and Engineering, Shri Mata Vaishno, Devi University,*

She is currently working as Assistant Professor in Department of Computer Science & Engineering, Shri Mata Vaishno Devi University, J&K, India, with more than twelve years of teaching experience. She has authored several research articles in International journals of repute. Besides having presented papers in several international/ national conferences she has been invited as an expert to various international conferences as paper reviewer/ program technical committee member. She has delivered lectures in various institutions/Universities and has also participated in various training programs and attended several workshop. She is also affiliated with international societies like IEEE, ACM, ACM digital library, IETE etc. Her research interests include Machine Learning, Soft Computing and image processing. She has associated herself in guiding several under graduate and post graduate students in their projects and is currently providing Ph.D. supervision to four research scholars. She is also actively involved in Institutional activities like organizing Conferences/ Workshops etc.

Research Profile

Research Publications:

S. No.	Year	Publication
1	2017	Gupta, S., & Arora S, "A Review of Data Mining Issues in Cloud Environment", International Journal of Computer and Mathematical Sciences", Vol.No. 6, 320- 325 (2017).
2	2017	Kaur Vippon Preet & Arora Sakshi, "A survey on Vision based Techniques for Detection and Classification of Fruit Diseases", Journal of Computer Engineering, Vol. (9), 2017.
3	2017	Arora Sakshi & Sunanda, "Genetic K-Means Clustering for Route Discovery in MultiCast Neyworks", International Journal of Control Theory and Applications, Vol. 10 (4), 49-56 (2017).
4	2017	Arora Sakshi & Sunanda, "Virtual Machine Availability and Load Balancing in Cloud Environment", International Journal of Control Theory and Applications, Vol. 10 (4), 183-190 (2017).
5	2016	Gupta, S., & Arora S, "Security in Cloud Computing", International Journal of Advance Research in Science and Engineering", Vol.No. 5, 280-285 (2016).
6	2016	
7	2015	Gupta, S., & Arora, S. (2015). Boosting Simulated Annealing With Fitness Landscape Parameters for Better Optimality. International Journal of Computing, 14(2), 107-112. (h-index: 8)
8	2015	Arora Sakshi and Gupta, Sunanda, "Effect of the Core Selection Strategy in Determining the Optimum BDMST in Multicast Networks", Advances in Computer Science and Information Technology Vol (2),2, (2015): pp. 249-251.
9	2014	Arora, Sakshi and M.L. Garg, "Strongly Biased Crossover Operator for Subgraph Selection in Edge-Set Based Graph Representation, "Advances in Intelligent Systems & Computing, Springer Advances in Intelligent Systems & Computing, Springer. **978-81-322-1768-8.**
10	2013	Arora, Sakshi, and M. L. Garg. "Neighborhood search for the bounded diameter minimum spanning tree." International Journal of Emerging Technology and Advancements in Engineering 3.2 (2013).
11	2011	Arora, Sakshi and M.L. Garg, "Clustering the data points to obtain optimum backbones for the Bounded Diameter Minimum Spanning Trees", IEEE Computer Society, 2011 978-0-7695-4437-3/11. DOI 10.1109/CSNT.2011.164.
12	2009	Arora, Sakshi., and M.L.Garg., "New hybrid evolutionary algorithm for solving the bounded diameter minimum spanning tree problem." Advances in Computational Research 1.2 (2009), pp. 43-46.

Conference Publications:

S. No.	Year	Conference	Publication
1	2017	International Conference on Machine learning and Computational Intelligence	Satish Kumar, Dr. Sunanda and Dr. Sakshi Arora, "A Survey on the State of Art Approaches Used in Intrusion Detection System, "International Conference on Machine learning and Computational Intelligence", 27-28 September, 2017
2	2017	International Conference on Machine learning and Computational Intelligence	Majeed, Insha and Arora, Sakshi., "Intrusion detection system for MANETs", International Conference on Machine learning and Computational Intelligence", 27-28 September, 2017

3	2017	IEEE International conference on Signal Processing, Computing and Control -2017 Solan.	Kalsotra Rudrika, Arora Sakshi., "Morphological based Moving Object Detection Using Background Subtraction", IEEE International conference on Signal Processing, Computing and Control -2017
4	2016	International Conference on Recent Trends and Advancements in Engineering and Technology 2016	Malhotra Aanchal and Arora, Sakshi., "Analysis of Ant Colony and particle Swarm Optimization Techniques for Travelling Salesman Problem",3rd International Conference on Recent Trends and Advancements in Engineering and Technology 2016 (17-18 November).
5	2016	International Conference on Recent Trends and Advancements in Engineering and Technology 2016	Arora, Sakshi, "An Elitist Genetic-Cuckoo hybrid search algorithm for Engineering Optimization",3rd International Conference on Recent Trends and Advancements in Engineering and Technology 2016 (17-18 November).
6	2016	International Conference on Recent Trends and Advancements in Engineering and Technology 2016	Arora Sakshi and Kour, Vippon Preet., "A Naïve Precision Agriculture System Model Using Internet of things",3rd International Conference on Recent Trends and Advancements in Engineering and Technology 2016 (17-18 November).
7	2016	3rd International Conference on Recent Trends and Advancements in Engineering and Technology 2016	Kumar Satish, Sunanda, Arora Sakshi., " A Comparative Analysis of Bacterial Foraging Optimization Algorithm", 3rd International Conference on Recent Trends and Advancements in Engineering and Technology 2016 (17-18 November).
8	2016	International Conference on Advancements in Engineering and Technology, Sangrur, 2016	Gupta, Sunanda., and Arora,Sakshi , "Cloud for Data Mining: Issues and Challenges", International Conference on Advancements in Engineering and Technology, Sangrur, 18th -19th March, 2016
9	2016	Advancements in Engineering and Technology, Sangrur, 18th -19th March, 2016	Arora, Sakshi., and Gupta, Sunanda., "Enhanced K-means clustering for route discovery in Multicast networks", Advancements in Engineering and Technology, Sangrur, 18th -19th March, 2016
10	2015	International conference on computer and communication technology, MNIT Allahabad, September 25th -27th 2015.	Gupta, Sunanda., and Arora,Sakshi , "An Archive Enhanced Hybrid Genetic Algorithm for Shortest Path Routing Problem" , International conference on computer and communication technology, MNIT Allahabad, September 25th -27th 2015.
11	2015	10th JK Science Congress, March 2015.	Gupta, Sunanda., and Arora,Sakshi., "Performance Analysis of Simulated Annealing with Fitness Correlation Heuristics ", 10th JK Science Congress, March 2015.
12	2015	10th JK Science Congress, March 2015.	Arora, Sakshi., and Gupta, Sunanda., "Performance analysis of the core selection strategy in multicast networks ", 10th JK Science Congress, March 2015.

13	2009	2nd National Conference on Emerging Principles & Practices of Computer Science & Information Technology (EPCSIT'09).	Arora, Sakshi., and Garg,M.L., "A mobile agent based intelligent immune Network Intrusion Detection architecture" 2nd National Conference on Emerging Principles & Practices of Computer Science & Information Technology (EPCSIT'09).
14	2007	National Conference on India and Other Emerging Economies (BRIC) – A Comparative study" held on October 24,2007	Gupta, Sunanda., and Arora,Sakshi., "Role of IT in Developing Countries" National Conference on India and Other Emerging Economies (BRIC) – A Comparative study" held on October 24,2007.
15	2007	National Conference on India and Other Emerging Economies – A Comparative study" held on October 24,2007	Arora,Sakshi., and Gupta,Sunanda., "Correlating Information Technology and National Development in Indian Context" at National Conference on India and Other Emerging Economies – A Comparative study" held on October 24,2007.
16	2006	IETE Conference in collaboration with Shri Mata Vaishno Devi University 2006	Arora, Sakshi., "Genetic algorithms as a meta search tool in web mining" at IETE Conference in collaboration with Shri Mata Vaishno Devi University 2006.
17	2006	National conference on "Bioinformatics computing", Chowdhary Devi Lal University, Haryana	Arora, Sakshi., "Issues in Hybridization of Biology and Computers" at "Biocon: 2006" National conference on "Bioinformatics computing", Chowdhary Devi Lal University, Haryana
18	2005	U.G.C Sponsored National Conference on "Emerging computer Technologies" , held in Jallandhar, 2005	Arora, Sakshi., "On Genetic Algorithms and Optimal Path finding" at U.G.C Sponsored National Conference on "Emerging computer Technologies" , held in Jallandhar, 2005
19	2005	JK Science Congress 2005	Arora, Sakshi., "Protein Folding: A Stochastic Process" at JK Science Congress 2005.

Research Supervised:

S. No.	Year	Role	Research Topic	Status
1	2016	Ph.D. Supervisor	Adaptive Bio inspired Heuristic based Autonomic Network intrusion Detection System	On going

2	2016	Ph.D. Supervisor	Moving Object Detection for Intelligent Video Analytics Using Background Subtraction Technique	On going
3	2016	Ph.D. Supervisior	Human Identification Based on Intelligent Gait Analysis	On going
4	2017	Ph.D. Supervisor	Medical Image Analysis for the Detection, Extraction and Modelling of Human Diseases	On going

Award and Honours:

S. No.	Title	Activity/Event	Given by	Year
1.	Best paper Award	UGC sponsored National Conference on Recent Trends in Information Technology.	Department of Collegiate Education, Government College Mandya.	2009
2.	Young Scientist Award	UGC Sponsored Conference, JK Science Congress	University of Jammu	2010

Professional Affiliation:

S. No.	Designation	Organization
1.	Editorial Board member	American Journal of Networks and Communications
2.	Editorial Board member	Intelligent Information Systems
3.	Professional Membership	Association for Computing Machinery
4.	Professional Membership	ACM Digital Library

5.	**Professional Membership**	**IEEE Society**
6.	**Lifetime Member**	**Institution of Electronics and Technical Engineers**