



Shaheed Rajguru College of Applied Sciences for Women
University of Delhi
Faculty Profile

Name	Dr. Suruchi Chawla	
Designation	Associate Professor	
Email	suruchi.chawla@rajguru.du.ac.in	
Degree	Institution	Year
B.E(Hons) Computer Science	SBMN College,MDU	2002
M.Tech(Computer Science)	Department of Computer Science, Kurukshetra University	2004
Phd(Computer Science)	Department of Computer Science, University of Delhi	2011
Areas of Interest / Specialization		
Machine Learning, Information Retrieval, Recommender System, Soft Computing		
Publications Profile		
[1] S. Chawla and P. Bedi, "Improving Information Retrieval Precision by Finding Related Queries with Similar Information Need Using Information Scents," <i>In 2008 First International Conference on Emerging Trends in Engineering and Technology</i>, pp. 486–491, Jan. 2008, doi: 10.1109/icetet.2008.23. [2] P. Bedi and S. Chawla, "Use of fuzzy rough set attribute reduction in high scent web page recommendations," <i>Lecture Notes in Computer Science</i>, pp. 192–200, Jan. 2009, doi: 10.1007/978-3-642-10646-0_23. [3] P. Bedi and S. Chawla, "Agent based information retrieval System using information Scents," <i>Journal of Artificial Intelligence</i>, vol. 3, no. 4, pp. 220–238, Jun. 2010, doi: 10.3923/jai.2010.220.238. [4] S. Chawla, "Trust in Personalized Web Search based on Clustered Query Sessions," <i>International Journal of Computer Applications</i>, vol. 59, no. 7, pp. 36–44, Dec. 2012, doi: 10.5120/9563-4032. [5] S. Chawla, "Semantic Query Expansion using Cluster Based Domain Ontologies," <i>International Journal of Information Retrieval Research</i>, vol. 2, no. 2, pp. 13–28, Apr. 2012, doi: 10.4018/ijirr.2012040102. [6] S. Chawla, "Personalised web search using ACO with information scent," <i>International Journal of Knowledge and Web Intelligence</i>, vol. 4, no. 2/3, p. 238, Jan. 2013, doi: 10.1504/ijkwi.2013.056370.		

- [7] S. Chawla. "Novel approach to query expansion using genetic algorithm on clustered query sessions for effective personalized web search". *International Journal of Advanced Research in Computer Science and Software Engineering*, 4(11), 73-81,2014.
- [8] S. Chawla. "Effective Personalization of web search based on Fuzzy Information Retrieval". *International Journal of Computer Science and Information Technologies*, 6(3), 2831-2837,2015.
- [9] S. Chawla, "Application of genetic algorithm and back propagation neural network for effective personalize Web Search-Based on Clustered query sessions," *International Journal of Applied Evolutionary Computation*, vol. 7, no. 1, pp. 33–49, Jan. 2016, doi: 10.4018/ijaec.2016010103.
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- [11] S. Chawla, "Application of hybrid of Fuzzy Set, Trust and Genetic Algorithm in query log mining for effective Information Retrieval," *International Journal of Intelligent Systems and Applications in Engineering*, vol. 1, no. 6, pp. 47–52, Mar. 2018, doi: 10.18201/ijisae.2018637930.
- [12] S. Chawla, "Intelligent web search system for personalised web search based on recommendation of web page communities," *International Journal of Intelligent Systems Design and Computing*, vol. 3, no. 1, p. 12, Jan. 2019, doi: 10.1504/ijisdc.2019.105793.
- [13] S. Chawla, "Application of fuzzy C-Means clustering and semantic ontology in web query session mining for intelligent information retrieval," *International Journal of Fuzzy System Applications*, vol. 10, no. 1, pp. 1–19, Jan. 2021, doi: 10.4018/ijfsa.2021010101.
- [14] S. Chawla. "Application of Deep Learning Model Convolution Neural Network for Effective Web Information Retrieval". In *Handbook of Research on Machine Learning Techniques for Pattern Recognition and Information Security* (pp. 100-120). IGI Global,2021.
- [15] S. Chawla, "Application of convolution neural networks in web search log mining for effective web document clustering," *International Journal of Information Retrieval Research*, vol. 12, no. 1, pp. 1–14, Mar. 2022, doi: 10.4018/ijirr.300367.
- [16] S. Chawla. "Deep Web Search Log Mining Using Spark for Efficient and Scalable Web Information Retrieval". In *Computational Vision and Bio-Inspired Computing: Proceedings of ICCVBIC 2022* (pp. 19-31). Singapore: Springer Nature Singapore,2023.

Awards and Distinctions

1. Worked as a Bursar of the College
2. Worked as PIO of the College
3. Worked as Staff council secretary of the College
4. Worked as the Convenor of the Proctorial Board of the College
5. Had been member of the Proctorial Board of the College
6. Served as the TIC of the Department
7. Had been the convenor of the Fees Concession Committee of the College
8. Had been the Admission Convenor of the College
9. Had been member of the Faculty of Mathematical Science
10. Had been convenor of the Sport Committee of the College
11. Had been DS of Examination of the College
12. Had been Cultural Secretary of the College
13. Had been Student Advisor of the College
14. Had been Sports Admission convenor of the College
15. Had been the member of Indian Science Congress Association

- 16. Served as a reviewer to the journals of Elsevier and IGI global.**
- 17. Had been Convenor of Garden Committee of the College.**
- 18. Had been the Convenor of Food Committee of the College.**
- 19. Member of the Fees Concession Committee of the College**
- 20. Member of Student Faculty committee of the Department.**