STANDARD TEMPLATE OF FACULTY PROFILE FOR UPLOADING OF UNIVERSITY WEBSITE

Title	Ms	First Name	Anju	Last Name	Saha	
Designation		Professor				
School /Dept. Name		USICT				
Address:		University School of Information and communication Technology, Guru Gobind Singh Indraprastha University, Sector 16 C, Dwarka, Delhi 110078				
Phone No.		Office	011-25302731			
		Residence	(optional)			
		Mobile	(optional)			
Email		1. anju_kochhar@yahoo.com		2. anju@ipu.ac.in		
Subjects Taught		• Software Testing, Software Engineering, Object Oriented Analysis and Design, Object Oriented Software Engineering, Software Quality Management				
Areas of Interest/ Specialization		• Software Testing, Software Engineering, Applications of Machine Learning				
Experience (in years)		Total	24 Years			
		Industry	-			
		Teaching	24 Years			
		Research	16 years			
Educational Qualifications		UG	B.Tech(Computer Science)			
		PG	M.Tech(Information Systems)			
		Doctorate	Ph.D(Information Technology)			
Research Publications in Journals (last 5 years)		1. Singh, D., Saha, A. and Gosain, A., 2021. wCM based hybrid pre-processing algorithm for class imbalanced dataset. *Journal of Intelligent & Fuzzy Systems*, pp.1-16. 2. Bhutani, P., Saha, A. and Gosain, A., 2021. WSEMQT: a novel approach for quality-based evaluation of web data sources for a data warehouse. *IET Software*, *14*(7), pp.806-815. 3. Singh, D., Gosain, A. and Saha, A., 2020. Weighted k-nearest neighbor based data complexity metrics for imbalanced datasets. *Statistical Analysis and Data Mining: The ASA Data Science Journal*, *13*(4), pp.394-404.				

	4. Sagar, K. and Saha, A., 2020. Quantitative usability assessment relying on experiential and specific task based SUS ratings. *Journal of Statistics and Management Systems*, *23*(2), pp.333-348. 5. Sharma, R. and Saha, A., 2020. An integrated approach of class testing using firefly and moth flame optimization algorithm. *Journal of Information and Optimization Sciences*, *41*(2), pp.599-612. 6. Sharma, R. and Saha, A., 2020. Identification of critical test paths using firefly algorithm for object oriented software. *Journal of Interdisciplinary Mathematics*, *23*(1), pp.191-203. 7. Gosain, A., Saha, A. and Singh, D., 2019. Measuring harmfulness of class imbalance by data complexity measures in oversampling methods. *International Journal of Intelligent Engineering Informatics*, *7*(2-3), pp.203-230. 8. Sharma, R. and Saha, A., 2019. Ant Lion optimizer for state based object oriented testing. *Journal of Information and Optimization Sciences*, *40*(2), pp.219-232. 9. Sagar, K. and Saha, A., 2019. The effect of user variables on academic websites usability: An empirical study. *Journal of Statistics and Management Systems*, *22*(2), pp.161-186. 10. Arora, I. and Saha, A., 2019. ELM and KELM based software defect prediction using feature selection techniques. *Journal of Information and Optimization Sciences*, *40*(5), pp.1025-1045. 11. Sharma, R. and Saha, A., 2018. Optimal test sequence generation in state based testing using moth flame optimization algorithm. *Journal of Intelligent & Fuzzy Systems*, *35*(5), pp.5203-5215. 12. Arora, I. and Saha, A., 2018. Software fault prediction using firefly algorithm. *International Journal of Intelligent Engineering Informatics*, *6*(3-4), pp.356-377. 13. Sagar, K. and Saha, A., 2017. A systematic review of software usability studies. *International Journal of Information Technology*, pp.1-24. 14. Sagar, K. and Saha, A., 2017. Qualitative usability feature selection with ranking: a novel approach for ranking the identified usability problematic attributes for academic websites using data-mining techniques. *Human-centric Computing and Information Sciences*, *7*(1), pp.1-24. 15. Sharma, R. and Saha, A., 2017. Optimization of object-oriented testing using firefly algorithm. *Journal of Information and Optimization Sciences*, *38*(6), pp.873-893.
Papers Published in Conference Proceedings (last 5 years)	1. Jain, S. and Saha, A., 2021. Improving Performance by Genetically Optimizing Support Vector Machine to Detect Code Smells. *Available at SSRN 3852580*. 2. Sharma, R. and Saha, A., 2020. Fermat Spiral-Based Moth-Flame Optimization Algorithm for Object-Oriented Testing. In *Advances in Computing and Intelligent Systems* (pp. 19-34). Springer, Singapore. 3. Sagar, K. and Saha, A., 2020. Exploring the effect of tasks difficulty on usability scores of academic websites computed using SUS. In *International Conference on Innovative Computing and Communications* (pp. 11-19). Springer, Singapore. 4. Arora, I. and Saha, A., 2019, February. Software Defect Prediction Using ELM and KELM Based Feature Selection Models. In *Proceedings of International Conference on Sustainable Computing in Science, Technology and Management (SUSCOM), Amity University Rajasthan, Jaipur-India*. 5. Bhutani, P. and Saha, A., 2019. Towards an evolved information food chain of world wide web and taxonomy of semantic web mining. In *International Conference on Innovative Computing and Communications* (pp. 443-451). Springer, Singapore. 6. Jain, S. and Saha, A., 2019, July. An Empirical Study on Research and Developmental Opportunities in Refactoring Practices. In *SEKE* (pp. 313-418).

<table>
<tr><td></td><td colspan="4">7. Sharma, R. and Saha, A., 2018, September. A systematic review of software testability measurement techniques. In 2018 International Conference on Computing, Power and Communication Technologies (GUCON) (pp. 299-303). IEEE.
8. Arora, I. and Saha, A., 2018. Software defect prediction: a comparison between artificial neural network and support vector machine. In Advanced computing and communication technologies (pp. 51-61). Springer, Singapore.
9. Arora, I. and Saha, A., 2016, December. Comparison of back propagation training algorithms for software defect prediction. In 2016 2nd International Conference on Contemporary Computing and Informatics (IC3I) (pp. 51-58). IEEE.
10. Gupta, P., Arora, I. and Saha, A., 2016, September. A review of applications of search based software engineering techniques in last decade. In 2016 5th International Conference on Reliability, Infocom Technologies and Optimization (Trends and Future Directions)(ICRITO) (pp. 584-589). IEEE.
11. Sagar, K. and Saha, A., 2016, December. Enhancing usability inspection through data-mining techniques: an automated approach for detecting usability problem patterns of academic websites. In International Conference on Intelligent Human Computer Interaction (pp. 229-247). Springer, Cham.
12. Gosain, A., Saha, A. and Singh, D., 2016, March. Analysis of sampling based classification techniques to overcome class imbalancing. In 2016 3rd International Conference on Computing for Sustainable Global Development (INDIACom) (pp. 2637-2643). IEEE.</td></tr>
<tr><td rowspan="3">Research Guidance</td><td rowspan="2">Awarded</td><td>PG</td><td>M. Phil</td><td>Doctorate</td></tr>
<tr><td>35</td><td></td><td>4</td></tr>
<tr><td>Undergoing</td><td>0</td><td></td><td>2</td></tr>
<tr><td rowspan="2">Research Projects</td><td>Completed</td><td colspan="3">Project entitled ‘Optimization of Object-Oriented Testing Using Meta-Heuristic Techniques’ under Faculty Research Grant Scheme (FRGS) of Guru Gobind Singh Indraprastha University in 2017-2018.</td></tr>
<tr><td>Undergoing</td><td colspan="3">-</td></tr>
<tr><td>Administrative Assignments Handled</td><td colspan="4">• Co-ordinator, MCA(SE) Programme. (2015-2019)
• Co-ordinator, NAAC/Annual Report/ISO Coordination Committee. (2013-2017)
• Member, Board of Studies, USICT, GGSIPU.
• Member, School Research Committee, USICT, GGSIPU.
• Member, NAAC, Criterion Committee, GGSIPU.(2018-2021)
• Member, Scheme/Syllabus design Committee, MCA(SE) 2 year programme. (2019-2020)
• Member, Economical Weaker Section Scheme (2013-2017)
• Member of Anti-Ragging Squad, GGSIPU. (2018-19)</td></tr>
<tr><td>Association with Professional Bodies</td><td colspan="4">CSI, IEEE</td></tr>
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