




## University Faculty Details Page on DU Web-site

Titl e	Prof.	First Name	Anu G.	Last Name	Aggarwal	Photograph
Designation	Professor					
Department	Operational Research					
Address (Campus)	Department of Operational Research, Faculty of Mathematical Sciences, University of Delhi					
(Residence)	D-132, Ashok Vihar, Phase-I, Delhi-110052					
Phone No	011-27666672					
Mobile	9810316072					
Email	<a href="mailto:anuagg17@gmail.com">anuagg17@gmail.com</a> anuagg17@yahoo.com					
Education						
Subject	Institution			Year		
Ph. D.	Department of Operational Research, University of Delhi			2007		
M.Phil.	Department of OR, D.U.			1999		
M.A.	Department of OR, D.U.			1996		
Career Profile						
Organization / Institution		Designation		Duration		
Department of OR, D.U.		Professor		2015-till date		
Department of OR, D.U.		Associate Professor		2012-2015		
Department of OR, D.U.		Assistant Professor		2008-2011		
Keshav Mahavidyalaya, D.U.		Lecturer		2002 –2007		
Maharaja Agarsen College, D.U.		Lecturer		1997-2000		
Research Interests / Specialization						
Software Reliability, Marketing Management, E-Commerce						
Teaching Experience						
Institution		Courses Taught				
Department of OR, D.U.		M.Sc. (O.R.)		Reliability and Maintenance Theory, Linear Programming, Queuing Theory, Software Reliability, Marketing Management		
		M.Phil. (O.R.)				
KeshavMahavidyalaya,		B.Sc. (Gen)		Optimization-I, Optimization-II, Queuing		

D.U.	Mathematical Science B. Com. (H)	Theory & Reliability Theory. Business Mathematics
Maharaja Agarsen College, D.U.	B.Sc. (Gen) Mathematical Science	Optimization-I, Optimization-II, Queuing Theory & Reliability Theory

### Research Publication List

#### In Indexed/ Peer Reviewed Journals

1. Tandon, A., Sharma, H., & **Aggarwal, A. G.** (2019). Assessing Travel Websites Based on Service Quality Attributes Under Intuitionistic Environment. *International Journal of Knowledge-Based Organizations (IJKBO)*, 9(1), pp-66-75.
2. Aakash., & **Aggarwal, A.G.** (2019). Role of EWOM, Product Satisfaction, and Website Quality on Customer Repurchase Intention. Carvalho, J., & Sabino, E. *Strategy and Superior Performance of Micro and Small Businesses in Volatile Economies* (pp. 1-365). Hershey, PA: IGI Global. doi:10.4018/978-1-5225-7888-8.
3. **Aggarwal Anu G.**, Nijhawan N. and Dhaka V. (2018). An SRGM for Multi-Release Open Source Software System, *International Journal of Innovation and Technology Management*, [Doi:10.1142/S0219877018500116](https://doi.org/10.1142/S0219877018500116)
4. Sameer Anand, VibhaVerma, and **Anu G. Aggarwal** (2018). Two Dimensional multi-release Software reliability modelling considering Fault reduction Factor under imperfect debugging. *Ingenieria Solidaria, Univ Cooperative Colombia*, Vol. 14.
5. **Anu G. Aggarwal**, C.K. Jaggi N.Nijhawan (2017), Optimal Release Policy for Multi-Release Software System, *International Journal of Operations Research and Information Systems*, Vol. 8(3), 21-38.
6. **Anu G Aggarwal**, V Dhaka, N.Nijhawan (2017) Reliability analysis for multi-release open-source software systems with change point and exponentiated Weibull fault reduction factor, *International Journal of Life Cycle Reliability and Safety Engineering*, Vol. 6(1), 3-14.
7. Tandon, A., **Aggarwal, Anu G.**, Nijhawan, N. (2016). An NHPP SRGM with Change Point and Multiple Releases. *International Journal of Information Systems in the Service Sector*, 8 (4), 57-68.
8. Kapur P.K.,**Aggarwal Anu. G**, Garmabaki A.H.S. (2015) Multi-generational innovation diffusion modeling: a two dimensional approach. *International Journal of Applied*

*Management Sciences*, 7(1), 1-18.

9. Kapur P.K., **Aggarwal Anu G**, Garmabaki A.H.S, Tandon A. (2014) .The Impact of Bugs Reported From Operational Phase on Successive Software Releases *International Journal of Productivity and Quality Management*, 14(4), 423-440.
10. Kapur P. K., **Anu G. Aggarwal**& Nijhawan N.(2014), A Discrete SRGM for Multi-Release Software Systems, *International Journal of Industrial and Systems Engineering*, 16(2), 143-155, 2014.
11. Kapur P. K., **Anu G. Aggarwal** & Nijhawan N.(2014), A Unified Discrete Modeling Framework for Detection and Correction Processes of Multi-Release Software, *Mathematical Modeling and Applications*, Om Prakash (Ed.), 129-149.
12. Kapur P. K., **Anu G. Aggarwal**. & Garmabaki A.H.S , Singh G.(2013), Modeling diffusion of successive generations of technology (A general framework), *International Journal of Operational Research*, 16(4), 465-484.
13. Kapur P. K., Yamada S., **Anu G. Aggarwal**. & Srivastava A. K., “ Optimal Price and Release time of a Software under Warranty”, *International Journal of Reliability, Quality and Safety Engineering*, 20(3),1340004-1, 2013.
14. P. K. Kapur, H. Pham, **Anu G. Aggarwal**, Gurjeet Kaur: “Two Dimensional Multi-Release Software Reliability Modeling and Optimal Release Planning”. ”. *IEEE Transactions on Reliability* 61(3), pp. 758-768, 2012.
15. Amir.H.S.Garmabaki.,**Anu G. Aggarwal**, P.K.Kapur and V. S. S. Yadavali, "Modeling Two-Dimensional Software Multi-Upgradation and Related Release Problem (a Multi Attribute Utility Approach)," *International Journal of Reliability, Quality and Safety Engineering*, World Scientific Vol. 19, No. 3, 2012.

### **Conference Presentations**

1. **Anu G. Aggarwal**, V. Verma and S. Anand (2017). Architecture based software reliability allocation under uncertain preferences, *Proceedings of the First International Conference on Information Technology and Knowledge Management. Annals of Computer Science and Information Systems*, Vol. 14, pages 3-12.
2. **Anu G. Aggarwal**, Sharma H. and Abhishek Tandon, (2017), An Intuitionistic Approach for Ranking OTA website under Multi-Criteria Group Decision Making Framework, *Proceedings of the First International Conference on Information Technology and Knowledge Management. Annals of Computer Science and Information Systems*, Vol. 14, pages 21-27.
3. **Anu G. Aggarwal** and Aakash. (2017), An Innovative B2C E-commerce Website selection using the ME-OWA and Fuzzy AHP. *Proceedings of the first international*

conference on Information Technology and Knowledge Management. Annals of Computer Science and Information Systems, Vol.14, pages 13-19.

4. **Anu G. Aggarwal**, Nijhawan, N., & Tandon, A. (2015). A Change Point Based Discrete SRGM for A Multi-Release Software System Proceedings of 1st International Conference on Evidence Based Management, BITs Pilani (Vol. II, pp. 674-678). Delhi: Excellent Publishing House. doi: 978-93-84935-18-4.
5. Amir.H.S.Garmabaki, **Anu.GAggarwal** ,P.K.Kapur , “Multi up- gradation software reliability growth model with faults of different severity,” Published in the proceedings of The IEEE International Conference on Industrial Engineering and Engineering Management (IEEM),Singapore, 6-9 Dec.2011, pp.1539-1543.
6. P.K.Kapur, **Anu G. Aggarwal**, Abhishek Tandon “Innovation Diffusion Model For Successive Generation Merchandise Considering The Effect Of Consumer Balking”, published in the proceedings of International Congress on Productivity, Quality, Reliability, Optimization and Modeling, 2011, Vol.1:Theoretical Papers, pp 150-159.
7. **Anu G. Aggarwal**, P.K. Kapur , Gurjeet Kaur, “Testing Time and Resource Dependent Two Dimensional Software Reliability Model for Faults of Different Severity and Related Optimal Allocation Problem”, published in the proceedings of International Congress on Productivity, Quality, Reliability, Optimization and Modeling, 2011, Vol.1:Theoretical Papers, pp 160-175.

#### **Ph.D./M.Phil. Supervision**

##### **➤ Ph.D. Supervision**

1. Modeling of Testing Resource allocation and Multi-Releases in Software Reliability: Gurjeet Kaur (2011)
2. A Novel Approach for Modeling Software Reliability and successive generations of Technologies: Abhishek Tandon (2012)
3. Quantitative Approach to Human Resource Management: Dinesh Kumar Khurana (2013)
4. Some Contributions to Multi-Release Problems in Software Reliability and Successive Generations of Technologies: Amir H.S. Garmabaki (2013)
5. Some Contributions to Discrete Modeling of Multi-Releases in Software Reliability: Nidhi Nijhawan (2017)

##### **➤ M.Phil. Supervision**

1. Testing Effort Based Software Reliability Growth Modeling And Some Related

Optimization Problems: Gurjeet Kaur

2. Testing Coverage Based Software Reliability Growth Models: Hemant Kumar
3. Applications Of Genetic Algorithms In Software Reliability: Kanica Kapoor
4. Software Architecture Based Reliability Models: Meenakshi
5. A Study on Unification Schemes in Software Reliability: Avinash Kumar Srivastava
6. A Study on Generalized Software Reliability Growth Models : Tripti Verma
7. A Study on Reliability Models for Embedded systems: Manprit Gill
8. A Study on Reliability Growth Models for Open Source Software systems : Pooja Sachdeva
9. Bayesian Software Reliability Growth Models : Shweta Chauhan
10. A Study on Marketing Models in E-Commerce: Himanshu Sharma
11. A study on Online Media Selection Models: Aakash
12. Some Applications of Soft Computing Techniques in Software Reliability: Meena
13. A Study on Pricing Problems in Airlines Industry: Neha
14. A Study on Effects of Free Sampling on Diffusion of Innovation: RachnaSain
15. A Study on Warranty Models in Marketing: VibhaVerma
16. A Study on Reliability Growth Models for Multi Release Open Source Software Systems: Diwakar
17. Assessment of Software Reliability under Operational Phase: Amit Chaudhary