

List of Publication

A.) Journal Publication

1. Chatterjee, S; Misra, R.B. and Alam, S.,S.; "Prediction of Software Reliability Using an Auto Regressive Process"; **International Journal of System Science**; Vol. 28; No. 2, 1997; p.no.: 205-211.
2. Chatterjee, S; Misra, R.B. and Alam, S., S.; "Joint Effect of Test Effort and Learning Factor on Software Reliability and Optimal Release Policy"; **International Journal of System Science**; Vol. 28; No. 4; 1997; p.no.: 391-396.
3. Chatterjee, S; Alam, S.,S.; and Misra, R.B.; "Prediction of Software Reliability Using Fuzzy Time Series Approach"; **International Journal of Fuzzy Mathematics**; Vol. 6; No. 2, p.no.: 373-380.
4. Chatterjee, S; Alam, S.S. and Misra, R.B.; "Analysis of Software Reliability Using Fuzzy Test Effort"; **International Journal of Fuzzy Mathematics**; Vol. 6; No. 1, p.no.: 395-403.
5. Chatterjee, S; Misra, R.B. and Alam, S.,S.; "A Generalized Shock Model for Software Reliability"; **Computer and Electrical Engineering-An International Journal**, Vol. 24; 1998, p.no.: 363-368.
6. Chatterjee, S; Misra, R.B. and Alam, S.,S.; "N-Version Programming with Imperfect Debugging"; **Computer and Electrical Engineering-An International Journal**; Vol. 30; No. 6; 2004; p. no.: 453-463.
7. Chatterjee, S; Misra, R.B. and Alam, S.,S.; "Symbolic Reliability Evaluation of software with Network Structure"; presented in **International Conference APORS-2003, New Delhi, India, published in OPSEARCH, Vol. 41, No. 3, 2004.**
8. Chatterjee, S., Das; S.K., Shekhar, A, and Dasgupta, S.; "A Realistic Approach for Software Reliability Growth Modeling with Imperfect Debugging and Multiple Failures" **Statistics in Transition-New Series**, vol. 9, No. 3, December 2008, p. 571-586
9. Chatterjee, S; Alam, S.,S. and Misra, R.B.; "Sequential Bayesian Technique: An Alternative Approach for Software Reliability Estimation"; **Sadhana**, Vol. 34, Part 2, April 2009, p. 235-241
10. Chatterjee, S.; Upadhyaya, L.N.; Singh, J.B. and Nigam, S.; "Combined Effect of Fault Detection and Fault Introduction Rate on Software Reliability Modeling" **Statistics in Transition-New Series**, Vol. 10, No. 3. December 2009, 457-464.
11. Chatterjee, S.; Singh, J.B.; Nigam, S. and Upadhyaya, L.N.; "Best Subset Selection of ARMA and ARIMA Models for Software Reliability Estimation" **International Journal of Modeling and Simulation**, Vol. 31, No. 2, 2011, 120-125.

12. Chatterjee, S.; Singh, J.B.; Nigam, S. and Upadhyaya, L.N.; "Prediction of Software Reliability Using Fuzzy ARIMA Model" **Journal of Fuzzy Mathematics**, Vol. 19, No.2, 2011, 495-502.
13. Chatterjee, S.; Nigam, S.; Singh, J.B. and Upadhyaya, L.N.; "Transfer Function Modeling in Software Reliability" **Computing**, Vol. 92, No.1, 2011, 33-48.
14. Chatterjee, S.; Singh, J.B.; Nigam, S. and Upadhyaya, L.N.; "Prediction of Software Reliability Using Simple and Two Factor High Order Fuzzy Time Series Model" **Fuzzy Information and Engineering**, Vol. 3, 2011, 293-309.
15. Chatterjee, S.; Nigam, S.; Singh, J.B. and Upadhyaya, L.N.; "Software Faults Predication Using NARX Network", **Applied Intelligence**, doi:10.1007/s10489-011-0316-x.
16. Chatterjee, S.; Singh, J.B.; Nigam, S. and Upadhyaya, L.N.; "A Study of a Single Multiplicative Neuron (SMN) Model for Software Reliability Prediction", accepted for publication in **Contemporary Achievements in Intelligent Systems**", Book Edited by Springer-Verlag.
17. Chatterjee, S.; Nigam, S.; Singh, J.B. and Upadhyaya, L.N.; "An Improved Additive Model for Reliability Analysis of Software with Modular Structure", accepted for publication in **Journal of Applied Mathematics and Informatics**.

B). Conference (Publication)

1. Chatterjee, S., Das; S.K. and Shekhar, A; "Software Reliability Growth Model with Imperfect Debugging and logistic Error Introduction rate"; **presented in International Conference On Reliability and Safety Engineering, held in Bhubanesware, India, December, 2005**, published in the proceedings, p. 313-319.
2. Chatterjee, S; "Software Reliability Growth Model Considering Increasing Fault Detection Rate, Imperfect Debugging and Multiple Failures"; presented and published in **International Conference On Reliability and Safety Engineering, held in Udaipur, India, 17th -19th December, 2007**.
3. Chatterjee, S. ; Nigam, S; Singh, J.B. and Upadhyay, L.N.; "NARX Neural Network in Software Reliability Predication", presented in **NCETCS, Assam University, Silchar, 2010**, published in **Advanced Computing Applications, Databases and Networks, Norosa Publication, 25-30**.

C). Conference (Presented)

1. Chatterjee, S; Misra, R.B. and Alam, S.S.; "A Sequential Bayesian Approach for Software Reliability Estimation"; **presented in International Conference On Stochastic Models, Optimization Techniques and Computer Applications; Dec. 1994; PSG College of Technology, Coimbatore, India**.
2. Chatterjee, S. and Dasgupta, S.; "An Improved Software Reliability Growth Model

with Multiple Failure and Imperfect Debugging”; **presented in 37th Annual Convention of Operational Research Society of India (ORSI), held in Indian Institute of Management, Ahmedabad, India, Jan., 2005.**

3. Chatterjee, S. , Singh, J.B.; Nigam, S; and Upadhyay, L.N.; “Time Series Modeling in Software Reliability”; **presented in National Seminar ANLS 2009, held in Visva Bharati University, Santiniketan, W.B., India.**

4. Chatterjee, S. , Singh, J.B.; Nigam, S; and Upadhyay, L.N.; “Prediction of Software Reliability Using Fuzzy ARMA time series modeling ”; **presented in National Seminar on Recent Advances In Theoretical and Applied Seismology, held in ISMU, Dhanbad, 2009, India.**

5. Chatterjee, S. ; Nigam, S; Singh, J.B. and Upadhyay, L.N.; “Transfer Function Modeling in Software Reliability”; **presented in National Seminar on Recent Advances In Theoretical and Applied Seismology, held in ISMU, Dhanbad, 2009, India.**

6. Chatterjee, S. ; Nigam, S; Singh, J.B. and Upadhyay, L.N.; “ARIMA MODELLING FOR SOFTWARE RELIABILITY ESTIMATION”; **presented in NCETCS-2009, held in Avinashlingam University for Women, Coimbatore, India.**

7. Chatterjee, S. , Singh, J.B.; Nigam, S; and Upadhyay, L.N.; “Application of Single Multiplicative Neuron Model in Software Reliability Analysis”, **presented in ICPQROM, organized by ISI Delhi, held in Indian Habitate Center, New Delhi, 7th February to 8th February 2009.**

8. Chatterjee, S. , Singh, J.B.; Nigam, S; and Upadhyay, L.N.; “A NHPP Based Software Reliability Growth Model for N-Version Programming System With Increasing Fault Detection Rate Under Imperfect Debugging”, **presented in CET 2011, held in Guang Doang Hotel, Shanghai, 28th October 2011 to 31st October 2011, published in IEEE Explore.**