

CURRICULLUM – VITAE

Dr.T.SUMATHI UMA MAHESWARI

Department of Mathematics

Kakatiya University,

Warangal, A.P.

India- 506009

Email: tsumathiuma@gmail.com

EDUCATION

Jan 1994- Dec 1997, Post Doctoral Researcher, UGC

1988- 1991: Ph.D, Kakatiya University, Warangal.

1985-1987: M.Sc (Mathematics), Kakatiya University, Warangal.

1981-1984: B.Sc (Maths, Physics, Chemistry), Kothagudem, Osmania University.

TEACHING EXPERIENCE

From 1990 as a faculty member in the Department of Mathematics, Kakatiya University, Warangal, Andhra Pradesh

RESEARCH EXPERIENCE

1. Principal Investigator for Ongoing Major Research Project:

Reliability study for redundancy of cascade system –a Markovian approach,

funded by UGC, 2011- 2014.

2. Postdoctoral Research Fellow (Jan. 1994 to Dec. 1997)

3. Ph.D Programme (1988- 1991):

TITLE OF THESIS : “Studies on some stress strength Reliability Models”

(Supervisor: Professor A.C.N.Raghavarchari, Department of Mathematics, Kakatiya University, Warangal)

CONFERENCES ATTENDED & PRESENTED PAPERS:

1. The 5th National conference on Applicable Mathematics in wave mechanics and vibrations (WMVC-2010), Held at Department of Mathematics Kakatiya University, March 2010.
2. The National conference on Advances in mathematical analysis and Applications, held at K.S.Ranga swamy college of arts and science, Tiruchengoda, Tamilnadu, August 2011.
3. The National Conference on Recent Developments in statistics held at Gulbarga University, September 2011.
4. The 31st Annual Convention of ISPS & International Conference on Statistics, Probability and Related Areas held at Cochin University of Science and Technology, Cochin, December 2011.

LIST OF PUBLICATIONS

1. Reliability of single strength under n-stresses. T.S.Uma Maheswari et.al., Micro Electron Reliability . Vol.32, No. 10, pp: 1475-1478. Pergamon Press, OXFORD, 1992.
2. Reliability Comparision of an n-Cascade system with the addition of ‘n’ strength Systems. T.S.Uma Maheswari et. al. , Micro Electron Reliability. Vol 33, No.4, pp 477-479. Pergoman Press, OXPORD, 1993.

3. Reliability of a Cascade System with Normal stress and Exponential strength T.S.Uma Maheswari et, al. , Micro Electron Reliability. Vol. 33, No.7, pp: 927-936, Pergamon Press, OXFORD, 1993.
4. Reliability of single stress under n-strengths of life distribution. T.S.Uma Maheswari et. al. , Micro Electron Reliability. Vol. 34, No. 3, pp: 569-572, Pergoman Press, OXFORD, 1994.
5. The Reliability of a Cascade system with Exponential strength and Gamma stress distribution. Assam Statistical Review Vol.6, 2000.

6. Post Optimal Analysis For Non Linear Programming Problems Using Wolf's Modified Simplex Method.

Zeenath Farheen, T.S.Uma Maheswari, M.Tirumala Devi

International Journal of Logic Based Intelligent Systems, Vol.2, No.2, December 2008.

7. Structural Changes in a Linear Programming Problem of a Post Optimal Solution

Zeenath Farheen, T.S.Uma Maheswari, M.Tirumala Devi

International Journal of applied Mathematical Analysis and Applications. July-Dec, Vol.3, No.2, pp 167-171, 2008.

8. Post Optimal Analysis For Transportation Problem

Zeenath Farheen, T.S.Uma Maheswari, M.Tirumala Devi

International Journal of Agricult.Stat Sci. Vol.5 No.2, 2009.

9. Reliability of n-Cascade system when stress and strength follow extreme value distribution

M.Tirumala Devi, K.Sandhya, T.S.Uma Maheswari

CiiT International Journal of Software Engineering and Technology, 17thDecember, 2011.

10. Reliability of a Cascade system with stress and strength follow Pareto distribution
M.Tirumala Devi, K.Sandhya, T.S.Uma Maheswari, N.Swathi.
CiiT International Journal of Programmable Device Circuits and Systems, vol. 4, No. 2,
February 2012.
11. Reliability of n- Cascade system under stress attenuation with Extreme value distributed
stress and Weibul strength.
K.Sandhya, M.Tirumala Devi, T.S.Uma Maheswari.
Proceedings of the International Conference on Mathematics in Engineering and Business
Management, March 9-10, 2012.
12. Reliability of time dependent stress and strength for deterministic and random cycles.
N.Swathi, T.Sumathi Uma Maheswari, M.Tirumala Devi.
CiiT International Journal of Programmable Device Circuits and Systems, vol. 4, No. 2,
February 2012.
13. Reliability of a cascade system with Extreme value distributed stress and strength
M.Tirumala Devi, T.S. Uma Maheswari, K.Sandhya, N.Swathi, P.Hari Prasad.
Proceedings of the International Conference on Mathematical modeling and applied soft
computing, July 11-13, 2012.
14. Reliability of Time dependent system when stress and strength follow Pareto distribution.
N.Swathi, T.S Uma Maheswari, M.Tirumala Devi, K.Sandhya, P.Hari Prasad.
Proceedings of the International Conference on Mathematical modeling and applied soft
computing, July 11-13, 2012.
15. Reliability Computations for shearing stress in Beams
P.Hari Prasad, T.S Uma Maheswari, M.Tirumala Devi, N.Swathi, K.Sandhya.
Proceedings of the International Conference on Mathematical modeling and applied soft
computing, July 11-13, 2012.
16. Reliability of time dependent system when stress and strength follow Extreme value
distribution

N.Swathi, T.Sumathi UmaMaheswari, M.Tirumala Devi, K.Sandhya, P.Hari Prasad.
Proceedings of National seminar on Mathematical modeling in Science and Technology,
August 18, 2012, The Technological institute of Textile and Sciences, Bhiwani, Haryana

17. Reliability of Time dependent stress- strength system for various distributions

N.Swathi, T.Sumathi UmaMaheswari.

IOSR journal of Mathematics, Vol 3, issue 6, sep-oct, 2012, pp: 01-07.

18. Reliability of a system with m-stress and n-strengths

M.Tirumala Devi, K.Sandhya, T.Sumathi Uma Maheswari

OPSEARCH Springer , oct- dec,2012, 49(4): 463-481.

19. Cascade Reliability when Stress follows mixed Exponential distribution

T.Sumathi UmaMaheswari, N.Swathi

Proceedings of National conference on Geometry, Algebra, Logic and Number theory,

Applications, December 06,2012,Tumkur University,Tumkur, Karnataka.

20. Reliability Computations for distribution of shear stresses over the Beam using Weibull distribution

T.Sumathi UmaMaheswari, P.Hari Prasad

Proceedings of National conference on Geometry, Algebra, Logic and Number theory,

Applications, December 06,2012,Tumkur University,Tumkur, Karnataka.

21. Reliability of stress- Strength system when stress follows mixture of Exponential distribution

T.Sumathi UmaMaheswari, N.Swathi

Proceedings of the National conference in Computer science and Application and Computational Mathematics, December 21-22 , 2012, Indira college of Commerce and Science, Pune.

22. Reliability of time dependent Stress- Strength model for Type- I smallest Extreme value distribution stress and weibull distributed strength.

N.Swathi, T.Sumathi UmaMaheswari

Proceedings of the National conference in Computer science and Application and Computational Mathematics, December 21-22 , 2012, Indira college of Commerce and Science, Pune.

23. Reliability Analysis of a beams when shearing stresses acted on if stress follow Pareto distribution

P.Hari Prasad, T.Sumathi UmaMaheswari

Proceedings of the National conference in Computer science and Application and Computational Mathematics, December 21-22 , 2012, Indira college of Commerce and Science, Pune.

24. Cascade Reliability for Generalized Exponential Distribution

T.Sumathi UmaMaheswari, N.Swathi

International Journal of Computational Engineering Research (IJCER), vol. 3, issue 1, pp: 132-136, Jan 2013.

25. Cascade Reliability of Stress- Strength system when Strength follows mixed Exponential distribution

T.Sumathi UmaMaheswari, N.Swathi

IOSR journal of Mathematics, Vol. 4, issue 5, Jan-Feb 2013, pp: 27-31.