Dr. S. B. Munoli

Academic Qualifications: M. Sc., M. Phil., Ph. D. in Statistics. *Present Position:* Professor of Statistics (since 11-03-2011). Date of Joining Services: 11-03-1996 as Lecturer in Statistics, KUD. Research Areas of Interest: Reliability Theory-modelling, assessment; Stochastic Processes and their applications; Optimal Control Analysis; Survival Models Research Publications: 41 Chapter in the book: 01 Popular Articles: 07 (one article written in Kannada on **Reliability Theory** bagged Mastivenkatesh Iyyengar memorial prize awarded by National Aerospace Laboratories in 2009) Study Material Prepared: 01 (On Reliability Theory for Statistics teachers in colleges) Citations 81, h-index 5, i10-index 5 Ph. D. guided: 05 Ph. D. presently guiding: 02 Conference/Seminars attended and presented papers: 38 Invited speaker at Conference/Seminars:18 Resource Person at workshops/Spl Lectures delivered at other Universities:15 Research Projects: 01(UGC-1.05 lakhs-2010-2011). Service to Karnatak University: Worked as Chairperson of Department, BOS, BOE; Co-ordinator of UGC-SAP-BSR project; Co-ordinator of International Diploma in Reproductive Health Management; Committees of NAAC, IQAC, Convocation, Gymkhana, Youth Festivals; Warden of Ladies Hostel, etc.. Service to other Universities/Boards:

Worked as member/examiner on BOS and BOE for various universities.

Details of Papers Published in Peer Reviewed Journals:

- 1. 2022- Estimation of Change Points in Hazard Rates, Advances and Applications in Statistics. 75, 79-90
- 2. 2022- Burden of COVID-19 DALY and Productivity Loss for Karnataka, India. Indian Journal of Public Health.
- 3. 2021-A control theory based analysis of repairable system. Int. J. Agricult. Stat. Sci. Vol 17, Suppl 1, 957-965.

- 4. 2021- Deterministic and Stochastic Models for Unemployment. Journal of Applied Probability and Statistics. Vol. 16, No. 1. 31-46.
- 5. 2020-Mortality among the early cases of COVID-19 and its association with key comorbidities in a large state in south India. International Journal of Community Medicine and Public Health. Oct, 7(10):3882-3886.
- 6. 2020-Effectiveness of lockdown on spread of COVID-19 in India A statistical analysis. International Journal of Research and Analytical Reviews(IJRAR), vol 7, Issue 2. 901-904.
- 7. 2020-Survival Analysis of SARS-COV-2 in Infected Population of Karnataka State of India. American Journal Pharmtech Research, 10 (4).
- 8. 2020- Optimal Control Analysis of Unemployment Models- A Stochastic Approach, International Journal of Mathematics and Statistics, Vol 21, Issue 3, 38-49.
- 9. 2019 Optimal Control Analysis for Stochastic Unemployment Model, International Journal of Mathematics and Statistics, Vol 20, Issue 2, 61-75.
- 10. 2019 Modelling and Assessment of Survival Probability of Shock Model with Two Kinds of Shocks, Open Journal of Statistics, 9, 484-493.
- 11. 2017- A mathematical approach to employment policies: An optimal control analysis. International Journal of Statistics and Systems (IJSS). ISSN 0973-2675, Vol 12, Num 3. 549-565.
- 12. 2016- Estimation of reliability in an accumulating damage shock model for a two-out-ofthree component system: damages follow geometric distribution : KU Science Journal. Vol 50. ISSN: 0075-5168. 95-99
- 13. 2016-time series analysis of casual relationship between inflation and unemployment in the SAARC countries. International Journal of Current research. ISSN: 0975-833X, 36917-36920.
- 2016- Estimation of Reliability for Stress-Strength Cascade Model; Open Journal of 14. Statistics. Scientific Research Publishing. ISSN: 2161-7198, 873-881.
- 15. 2015-Optimal control analysis of a mathematical model for unemployment. Optimal Control Applications and Methods; Wiley Online Library.
- 16. 2015- Reliability estimation of a system of (2+1) components with single repair facility and reboot delay, Karnatak University Journal of Science. Vol 50. ISSN: 0075-5168. 40-47.
- 17. 2013- Reliability estimation for lightly loaded standby system of (k+1) components and an imperfect switch with single repair facility. Opinion- International Journal of Business Management ISSN:2231-5470. 67-78.

- 2012 Estimation of reliability in an accumulating damage shock model for a two-out ofthree component system. Journal of Statistics Science Vol. 4 no. 2. ISSN: 0975-1661.
- 2011- Estimation of reliability for a two Component Survival Stress-Strength Model. International Journal of Quality, Statistics and Reliability. (Foreign: Hindawi Publishing Corporation, UK) Volume 2011, 1-8.
- 20. 2011- Reliability Estimation in Bivariate Stress Passing Model with Single Repair Facility. Global Journal of Engineering and Applied Sciences. Vol1(3), 129-132. ISSN:2249-2631
- 21. 2011- Reliability Estimation in Shock Model when Successive Shocks Cause Greater Damage (Non-accumulating Damages) Research Journal of Mathematics and Statistics.
 3(1):61-66. (Foreign: Maxwell Scientific Organisation, UK) ISSN:2040-7505
- 22. 2011-Reliability Estimation of Two Components and an Imperfect Switch Lightly Loaded Standby System with Single repair Facility. Proceedings of International Congress on Productivity, Quality, Reliability, Optimization and Modelling, 7-8 February,2011 ISI SQC & OR Division, New Delhi.
- 23. 2011-Estimation of Reliability in a Non-accumulating Damage Shock Model for a Twoout-of Three Component System. Proceedings of International Congress on Productivity, Quality, Reliability, Optimization and Modelling, 7-8 February,2011 ISI SQC & OR Division, New Delhi.
- 2010-Estimation of Reliability in Non-accumulating Damage Shock Model. Arya Bhatta Journal of Mathematics & Informatics, ISSN: 0975-7139. Vol 2, 175-181
- 2010 Reliability Prediction in Fatal and Non-fatal Shock Model. Arya Bhatta Journal of Mathematics and Informatics. Vol 2, No. 2, 255-260. ISSN 0975-7139
- 26. 2009 Estimation of reliability in non-accumulating damage shock model for twocomponent (non iid) parallel system. Research Journal of Mathematics and Statistics. 1 (1):23-26. (Foreign: Maxwell Scientific Organisation, UK) ISSN:2040-7505
- 2008 A note on two simple efficient tests for testing exponentiality against increasing failure rate alternatives. International Journal of Agricultural Statistical Science. ISSN: 0973-1903. Vol. 4, 163-168.

- 2008 –Estimation of Reliability in non-accumulating damage shock model with random threshold. International Journal of Agricultural Statistical Science. ISSN: 0973-1903. Vol. 4, 181-185.
- 29. 2007 Estimation of Reliability in (k+1) component lightly loaded standby system with single repair. Commun. Statist. Theory Meth. 36(1),193-202.
- 2007 Estimation of system survival function with specified number of shocks. J. Prob. and Stat. Science. Vol. 5 No. 1., 49-58.
- 2007 Estimation of system reliability in fatal and non-fatal shock model. Assam Statistical Review. Vol. 21, 184-193.
- 2007 Estimation of survival probability with specified number of shocks. JP Journal of Biostatistics. Vol. 1, 197-204.
- 2006 Estimation of reliability in non-accumulating damage shock model. Far East J. Theor. Stats. 19(2), 273-279.
- 2005-06 Estimation of reliability for three component lightly loaded standby system with single repair. Karnatak University Journal of Science. Vol. 45/46, 90-96.
- 35. 2005-06 Estimation of reliability in fatal and non-fatal shock model. Karnatak University Journal of Science. Vol 45/46, 97-102.
- 36. 2005 Estimation of reliability in fatal and non-fatal shock model for two-component parallel system. Refereed Proceedings of Volume of National Seminar on Recent Developments in Statistical Science. 93-97.
- 37. 2004 Estimation of reliability in three component lightly loaded standby system.
 Karnatak University Journal of Science Vol. 44. 12-17.
- 1997 Estimation of a two-unit lightly loaded standby system. Refereed Proceedings of the National Conference on Quality and Reliability (NCQR- 97) 67-73.
- 1994 Estimation of reliability in Freund model for two-component system. Commun. Statist.- Theory Meth. 23(11), 3273-3283.
- 40. 1993 Estimation of reliability in a shock model for a two component system. Statistics and Probability Letters. 17, 35-38.
- 41. 1993 Estimation of reliability for a multicomponent survival stress strength model based on exponential distributions. Commun. Statist., Theory Meth., 22(3), 769-779.

- 42. Chapter in the book: 2012-Testing of Hypotheses in the Book "STATISTICAL METHODS FOR COMMUNICATION SCIENCE" ISBN: 978-81-923859-0-7
- 43. Study Material Prepared: On Reliability Theory for Statistics teachers in colleges

Popular articles: (Kannada/English)

- 2006- Anantateya parikalpane hagoo sankhyashastradalli adar pariganane. Suvarna Karnatak volume of 'KANAD' (a Kannada Science magazine).
- 2006- Sankhyashastradallin halavu notagal melin kshanik darshan. Proceedings of Second Vijnan Sammelana. 25.
- 2006- Vividh shastragala adhyayanadalli sankhyashastrada patra Proceedings of Second Vijnan Sammelana. 25.
- 4. 2006- The idea of infinity in Statistics. Proceedings of Triadic Conference. 77-78.
- 5. 2005- Statistics is inevitable for higher studies in social sciences. Proceedings of the National Seminar on Higher Education in India Emerging Challenges. 155-160.
- 6. 2005- Sthirarashirahit sankhik anuman- Suvrna Karnataka Volume of Books by Bangalore University.
- 2009- Nambalarhata vadatatva hagoo sankhyashastriya asaphalata madarigalu-'KANAD' (a Kannada Science magazine) – Dr. Mastivenkatesh Iyengar Meorial Prize Winning Article.