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LIST OF PUBLISHED WORKS

(a) **Published:**

(1) Deepthi, K.S. and Chacko, V.M. (2021). Identification of Failure rate behavior of Increasing Convex (Concave) Transformations. *Reliability: Theory and Applications*, Vol. 16, **1(61)**, pp. 109-116.
$https://doi.org/10.24412/1932-2321-2021-161-109-116.$ (Scopus and UGC Care)

(2) Deepthi, K.S. and Chacko, V.M. (2020). Reliability Estimation of Stress-Strength Model using three parameter Generalized Lindley distribution, *Advances and Applications in Statistics*, **65(1)**, pp. 69-89.
$http://dx.doi.org/10.17654/AS065010069.$ (Web of Science and UGC Care).

(3) Deepthi, K.S. and Chacko, V.M. (2020). An Upside-down Bathtub Shaped failure rate model using DUS Transformation of Lomax Distri-

bution. Chapter 6, Cui, L. (Ed.), Frenkel, I. (Ed.) and Lisnianski, A. (Ed.). *Stochastic Models in Reliability Engineering*, Boca Raton: CRC press, Taylor & Francis Group, London.

$https://doi.org/10.1201/9780429331527.$

(4) Deepthi, K.S. and Chacko, V.M. (2019). Estimation of Stress-Strength model using Three parameter Generalized Lindley Distribution. *Proceedings of National Seminar on Statistical Approaches in Data Science*, pp. 55-63, ISBN: 978-81-935819-2-6.

(5) Chacko, V.M. and Deepthi, K.S. (2019). Generalized X-Exponential Bathtub Shaped Failure Rate Distribution. *Journal of the Indian Society for Probability and Statistics*, **20(2)**, pp. 157-171, e-ISSN 2364-9569.

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(6) Chacko, V.M. and Deepthi, K.S. and Beenu, T. (2018). Weibull-Lindly Distribution: A bathtub shaped failure rate model. *Reliability: Theory and Applications*, Vol.13, **4(51)** , pp. 9-20.

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$http://www.gnedenko.net/Journal/2017/032017/RTA\_3\_2017-04.pdf$

(b) **Presentations in Conferences/Seminars:**

(1) A Generalization of Weibull-Lindley distribution: Two parameter Bathtub Shaped Model, *International Conference on Changing Paradigms and Emerging Challenges in Statistical Sciences (ICPECS-2018)* in conjunction with Bi-Decennial Convention of Society of Statistics, Computer and Applications organized by the Department of Statistics, Pondicherry University, Puducherry, India, January 29-30, 2018.

(2) A Generalization of Exponential distribution with Bathtub Shaped Failure rate Model, *National Seminar on Innovative Approaches in Statistics* in conjunction with the *Annual Conference of the Kerala Statistical Association* organized by the Department of Statistics, St. Thomas' College (Autonomous), Thrissur, Kerala, India, February 15-17, 2018.

(3) Generalized X-Exponential Bathtub Shaped Failure rate Distribution, *International Conference on Mathematics in collaboration with International Multidisciplinary Research Foundation (IMRF)* organized by the Department of Mathematics, St. Thomas' College (Autonomous), Thrissur, Kerala, June 29-30, 2018.

(4) Estimation of Stress-Strength Reliability using Three parameter Generalized Lindley Distribution, *National Seminar on Statistical Approaches in Data Science*, organized by the Department of Statistics, St. Thomas' College (Autonomous), Thrissur, February 6-7, 2019.

(5) An Upside-down Bathtub Shaped Failure rate model using DUS Trans-

formation of Lomax Distribution, *National Seminar on Recent Trends in Statistical Sciences* in conjunction with 40th *Annual Conference of Kerala Statistical Association* organized by the Department of Statistics, University of Kerala, Trivandrum, Kerala, March 7-9, 2019.

(6) Identification of Failure rate behavior of Increasing Convex (Concave) TTT Transformations, *National Web based Seminar on Recent Trends in Statistical Theory and Applications-2020* organized by Indian Society for Probability and Statistics, Kerala Statistical Association (KSA) and Department of Statistics, University of Kerala, Trivandrum, June 29-July 1, 2020.

(c) **Achievements:**

(1) Dr. R.N. Pillai Young Statistician Award for Research Paper presentation in *National Seminar on Innovative Approaches in Statistics* in conjunction with the Annual Conference of the Kerala Statistical Association conducted by the Kerala Statistical Association at St. Thomas' College (Autonomous), Thrissur on 16th February 2018.