On MLEs of the parameters of a new extended Weibull distribution based on record values

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In this paper, we proved that the MLEs of the parameters of a new extended Weibull lifetime model with possible upside-down bathtub shape and monotonic hazard rate function, proposed by Peng and Yan in [1], exist and are unique based on upper kth record values.

References

[1] X. Peng and Z. Yan, Estimation and application for a new extended Weibull distribution, Reliability Engineering & System Safety **121** (2014), 34–42.