Supporting Information: The relationship between confidence intervals and distributions of estimators for parameters of deterministic models

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1. Supporting Information

In this document the code used generating each of the 13 figures is listed. The code works Matlab© and with free open source DEBtool_M software - https://debtool.debtheory.org/docs/index.html.

Code was run with Matlab© R2021a.

- mydata_F2S_exp.m - From loss function to survivor function for the exponential model. Calls exprnd.m and exponential.m
- mydata_F2S_wbl.m - From loss function to survivor function for the Weibull model. Calls wblrnd.m and weibull.m
- mydata_Ssb_exp.m - Compares SB-estimates for parameters of exponential distribution based on fitting $\exp(-\lambda t)$ for 2 definitions of empirical survival data. Calls exprnd.m and exponential.m
- mydata_Ssb_wbl.m - Compares SB and ML-estimates for parameters of the Weibull distribution based on fitting $\exp(-\lambda t)^k$. Calls wblrnd.m and weibull.m

- mydata_F2S_vBert.m - Generates figures 11 and 12 . Calls vBert.m and generates vBert.mat and/or else loads those data.

- mydata_F2S_vBert_2D.m - Generates figures 13. Calls vBert.m and either generates .mat files vBert_2D.mat and vBert.mat or else loads those data. vBert_2D.mat and vBert.mat are in the folder which enables the function to execute fast. user can uncomment relevant parts of the code to re-generate the data.