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Bivariate Characterized Model Based on Mean Residual Life Properties

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Abstract: This paper uses the concept of characterized model for bivariate extensions of univariate life distributions based on mean residual life properties. Different bivariate distributions can be generated from different choices of marginal distributions. The retention of univariate IMRL, DMRL, NBUE, NWUE, HNBUE and HNWUE class properties in the bivariate setup has been ensured along with results of importance for reliability analysis. A characterization of the exponential, Lomax and finite range distributions has been obtained in this process.

Key words: bivariate distribution, characterized model, failure rates, hazard function, survival function

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