

**Bassan, Bruno; Spizzichino, Fabio**

**Relations among univariate aging, bivariate aging and dependence for exchangeable lifetimes.** (English) [Zbl 1070.60015](#)

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For bivariate exchangeable distribution functions, the authors analyze the relations among some notions of bivariate aging, of univariate aging (of the common marginals), and of bivariate dependence. A natural tool for the analysis is the notion of semicopula. As examples, the authors characterize the Schur-concavity of the corresponding bivariate exchangeable survival function, and the IFR property of the (common) marginals. Archimedean survival copulae are studied in some detail.

Reviewer: [Moshe Shaked \(Tucson\)](#)

**MSC:**

[60E15](#) Inequalities; stochastic orderings

[60K10](#) Applications of renewal theory (reliability, demand theory, etc.)

Cited in **2** Reviews  
Cited in **83** Documents

**Full Text:** [DOI](#)

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