INTERVAL CENSORING: IDENTIFIABILITY AND RELATED TOPICS

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The constant–sum property given in Oller et al. (2004) for censoring models justifies the use of a simplified likelihood to obtain the nonparametric maximum likelihood estimator (NPMLE) of the lifetime distribution. In this paper we study the importance of this constant–sum property in the identifiability of the lifetime distribution. We show that the lifetime distribution is not identifiable outside the class of constant–sum models. We also show that the lifetime probabilities assigned to the observable intervals are identifiable inside the class of constant–sum models. We illustrate all these notions with several examples and give proposals of situations where the entire lifetime distribution is identifiable.