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A unified multivariate survival model in presence of a cure fraction

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In this talk, I present a new lifetime model for multivariate survival data with a surviving fraction. The model is developed under the presence of m types of latent competing risks and proportion of survival individuals. Inference is based on maximum likelihood approach. A simulation study is performed in order to analyze the coverage probabilities of confidence intervals based on the asymptotic distribution of the maximum likelihood estimates. The proposed modeling is illustrated through a real dataset on medical area.

Biography

Francisco Louzada has completed his PhD from University of Oxford. He is the Director of Technology Transfer and Executive Director of External Relations of the Center for Research, Innovation and Dissemination of Mathematical Sciences in Industry (CEPID-CeMEAI), in Brazil. He has published more than 190 papers in reputed journals and has been serving as Editor-in-Chief of the *Brazilian Journal of Probability and Statistics (BJPS)*.

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