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Titolo	Analysis of Survival Data with Dependent Censoring : Copula-Based Approaches // by Takeshi Emura, Yi-Hau Chen
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Descrizione fisica	1 online resource (94 pages)
Collana	JSS Research Series in Statistics, , 2364-0065
Disciplina	519.1
Soggetti	Biometry Statistics Social sciences - Statistical methods Biostatistics Statistical Theory and Methods Statistics in Social Sciences, Humanities, Law, Education, Behavioral Sciences, Public Policy
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Chapter 1: Setting the scene -- Chapter 2: Introduction to survival analysis -- Chapter 3: Copula models for dependent censoring -- Chapter 4: Gene selection under dependent censoring -- Chapter 5: The joint frailty-copula model for meta-analysis -- Chapter 6: High-dimensional covariates in the joint frailty-copula model -- Chapter 7: Dynamic prediction of time-to-death. Chapter 8: Future developments -- Appendix.
Sommario/riassunto	This book introduces readers to copula-based statistical methods for analyzing survival data involving dependent censoring. Primarily focusing on likelihood-based methods performed under copula models, it is the first book solely devoted to the problem of dependent censoring. The book demonstrates the advantages of the copula-based methods in the context of medical research, especially with regard to cancer patients' survival data. Needless to say, the statistical methods presented here can also be applied to many other branches of science, especially in reliability, where survival analysis plays an important role. The book can be used as a textbook for graduate coursework or a short

course aimed at (bio-) statisticians. To deepen readers' understanding of copula-based approaches, the book provides an accessible introduction to basic survival analysis and explains the mathematical foundations of copula-based survival models.
