

1. Record Nr.	UNINA9910917795803321
Autore	Coelho Carlos A
Titolo	Statistical Modeling and Applications : Multivariate, Heavy-Tailed, Skewed Distributions and Mixture Modeling, Volume 2 / / edited by Carlos A. Coelho, Ding-Geng Chen
Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2024
ISBN	9783031696220 3031696220
Edizione	[1st ed. 2024.]
Descrizione fisica	1 online resource (260 pages)
Collana	Emerging Topics in Statistics and Biostatistics, , 2524-7743
Altri autori (Persone)	ChenDing-Geng
Disciplina	519.5
Soggetti	Statistics Sampling (Statistics) Applied Statistics Methodology of Data Collection and Processing Mostreig (Estadística) Llibres electrònics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	-- Random Gaussian fields and systems of stochastic partial differential equations. -- A Poly-cylindrical Bayesian network for clustering oceanographic data. -- A Copula-Based Approach to Statistical Modelling of Solar Irradiance. -- Two-sample intraclass correlation coefficient tests for matrix-valued data. -- Evolution of the generation and analysis of single imputation synthetic datasets in Statistical Disclosure Control. -- Some empirical findings on neural network-based forecasting when subjected to autoregressive resampling. -- Enriched lognormal models for income data:A new approach to estimate semi-parametric Gaussian mixtures of regressions with varying mixing proportions. -- Computational comparisons of two-component mixtures using Lindley-type models. -- Baranchik-type estimators under modified balanced loss functions. -- Modelling the movement of a South African cheetah using a hidden Markov model and circular-linear regression.
Sommario/riassunto	In an era defined by the seamless integration of data and sophisticated

analytical and modeling techniques, the quest for advanced statistical modeling and methodologies has never been more pertinent. *Statistical Modeling and Applications: Multivariate, Heavy-Tailed, Skewed Distributions, Mixture and Neural-Network Modeling, Volume 2*, represents a concerted effort to bridge the gap between theoretical advancements and practical applications in the realm of Statistical Science, namely in the area of Statistical Modeling. It also aims to present a wide range of emerging topics in mathematical and statistical modeling written by a group of distinguished researchers from top-tier universities and research institutes to offer broader opportunities in stimulating further collaborations in the areas of mathematics and statistics. The book has eleven chapters, divided in two Parts, with Part I comprising five chapters dealing with the application of Multivariate Analysis techniques and multivariate distributions to a set of different situations, and Part II consisting of six chapters which address the modeling of several interesting phenomena through the use of Heavy-Tailed, Skewed, Circular-Linear and Mixture Distributions, as well as Neural Networks.
