

1. Record Nr.	UNINA9910349326903321
Titolo	Stochastic Models, Statistics and Their Applications [[electronic resource] ] : Dresden, Germany, March 2019 // edited by Ansgar Steland, Ewaryst Rafajowicz, Ostap Okhrin
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2019
ISBN	3-030-28665-7
Edizione	[1st ed. 2019.]
Descrizione fisica	1 online resource (449 pages)
Collana	Springer Proceedings in Mathematics & Statistics, , 2194-1009 ; ; 294
Disciplina	519.2
Soggetti	Statistics Probabilities Big data Econometrics Statistical Theory and Methods Probability Theory and Stochastic Processes Big Data Statistics for Engineering, Physics, Computer Science, Chemistry and Earth Sciences
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
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## Sommario/riassunto

This volume presents selected and peer-reviewed contributions from the 14th Workshop on Stochastic Models, Statistics and Their Applications, held in Dresden, Germany, on March 6-8, 2019. Addressing the needs of theoretical and applied researchers alike, the contributions provide an overview of the latest advances and trends in the areas of mathematical statistics and applied probability, and their applications to high-dimensional statistics, econometrics and time series analysis, statistics for stochastic processes, statistical machine learning, big data and data science, random matrix theory, quality control, change-point analysis and detection, finance, copulas, survival analysis and reliability, sequential experiments, empirical processes, and microsimulations. As the book demonstrates, stochastic models and related statistical procedures and algorithms are essential to more comprehensively understanding and solving present-day problems arising in e.g. the natural sciences, machine learning, data science, engineering, image analysis, genetics, econometrics and finance.