1.	Record Nr.	UNISALENTO991002944349707536
	Titolo	Stochastic geometry, spatial statistics and random fields [e-book] : models and algorithms / edited by Volker Schmidt
	Pubbl/distr/stampa	Cham [Switzerland] : Springer International Publishing, 2015
	ISBN	9783319100647
	Descrizione fisica	1 online resource
	Collana	Lecture notes in mathematics, 1617-9692 ; 2120
	Classificazione	AMS 60-06 AMS 60D05 AMS 60G60 AMS 62H11 LC QA274-274.9
	Altri autori (Persone)	Schmidt, Volker
	Disciplina	519.2
	Soggetti	Algorithms Geometry Distribution (Probability theory)
	Lingua di pubblicazione	Inglese
	Formato	Software
	Livello bibliografico	Monografia
	Nota di contenuto	Stein's Method for Approximating Complex Distributions, with a View towards Point Processes -- Clustering Comparison of Point Processes, with Applications to Random Geometric Models -- Random Tessellations and their Application to the Modelling of Cellular Materials -- Stochastic 3D Models for the Micro-structure of Advanced Functional Materials -- Boolean Random Functions -- Random Marked Sets and Dimension Reduction -- Space-Time Models in Stochastic Geometry -- Rotational Integral Geometry and Local Stereology - with a View to Image Analysis -- An Introduction to Functional Data Analysis -- Some Statistical Methods in Genetics -- Extrapolation of Stationary Random Fields -- Spatial Process Simulation -- Introduction to Coupling-from-the-Past using R -- References -- Index
	Sommario/riassunto	Providing a graduate level introduction to various aspects of stochastic geometry, spatial statistics and random fields, this volume places a special emphasis on fundamental classes of models and algorithms as well as on their applications, for example in materials science, biology and genetics. This book has a strong focus on simulations and includes

extensive codes in Matlab and R, which are widely used in the mathematical community. It can be regarded as a continuation of the recent volume 2068 of Lecture Notes in Mathematics, where other issues of stochastic geometry, spatial statistics and random fields were considered, with a focus on asymptotic methods