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| 1. Record Nr. | UNISALENTO991002944419707536 |
| Titolo | Stochastic geometry, spatial statistics and random fields : models and algorithms / edited by Volker Schmidt |
| Pubbl/distr/stampa | Cham [Switzerland] : Springer International Publishing, c2015 |
| ISBN | 9783319100630 |
| Descrizione fisica | xxiv, 464 p. : ill. ; 24 cm |
| Collana | Lecture notes in mathematics, 0075-8434 ; 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 | Materiale a stampa |
| Livello bibliografico | Monografia |
| Nota di bibliografia | Includes bibliographical references and index |
| 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
