

|                         |   |
|-------------------------|---|
| 1. Record Nr.           | UNINA9910437871503321   |
| Titolo                  | Stochastic Geometry, Spatial Statistics and Random Fields : Asymptotic Methods / / edited by Evgeny Spodarev  |
| Pubbl/distr/stampa      | Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2013  |
| ISBN                    | 9783642333057<br>3642333052   |
| Edizione                | [1st ed. 2013.]   |
| Descrizione fisica      | 1 online resource (XXIV, 446 p. 105 illus., 27 illus. in color.)  |
| Collana                 | Lecture Notes in Mathematics, , 1617-9692 ; ; 2068  |
| Disciplina              | 519.2   |
| Soggetti                | Convex geometry<br>Discrete geometry<br>Probabilities<br>Statistics<br>Convex and Discrete Geometry<br>Probability Theory<br>Statistical Theory and Methods   |
| Lingua di pubblicazione | Inglese   |
| Formato                 | Materiale a stampa  |
| Livello bibliografico   | Monografia  |
| Note generali           | Includes contributions presented at the Summer Academy on Stochastic Geometry, Spatial Statistics and Random Fields, held at the Sollerhaus, Hirschegg, Austria, September 13-26, 2009, under the auspices of the Institute of Stochastics, University of Ulm.  |
| Nota di bibliografia    | Includes bibliographical references (pages 421-440) and index.  |
| Nota di contenuto       | 1 Foundations of stochastic geometry and theory of random sets -- 2 Introduction into integral geometry and stereology -- 3 Spatial point patterns -- models and statistics -- 4 Asymptotic methods in statistics of random point processes -- 5 Random tessellations and Cox processes -- 6 Asymptotic methods for random tessellations -- 7 Random polytopes -- 8 Limit theorems in discrete stochastic geometry -- 9 Introduction to random fields -- 10 Central limit theorems for weakly dependent random fields -- 11 Strong limit theorems for increments of random fields -- 12 Geometry of large random trees: SPDE approximation. |
| Sommario/riassunto      | This volume provides a modern introduction to stochastic geometry, random fields and spatial statistics at a (post)graduate level. It is  |

focused on asymptotic methods in geometric probability including weak and strong limit theorems for random spatial structures (point processes, sets, graphs, fields) with applications to statistics. Written as a contributed volume of lecture notes, it will be useful not only for students but also for lecturers and researchers interested in geometric probability and related subjects.

---