

1. Record Nr.	UNISALENTO991003325989707536
Autore	Shi, Zhan
Titolo	Branching Random Walks [e-book] : École d'Été de Probabilités de Saint-Flour XLII-2012 / Zhan Shi
ISBN	9783319253725 (ebook)
Descrizione fisica	1 online resource
Collana	Lecture notes in mathematics, 1617-9692 ; 2151
Classificazione	AMS 60J80 AMS 60G50 AMS 60J85
Altri autori (Convegni)	Ecole d'été de probabilités de Saint-Flour <42. ; 2012 ; Saint-Flour, France>
Disciplina	519.2
Soggetti	Random walks (Mathematics) - Congresses Branching processes - Congresses
Lingua di pubblicazione	Inglese
Formato	Software
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references
Nota di contenuto	I Introduction ; II Galton-Watson trees ; III Branching random walks and martingales ; IV The spinal decomposition theorem ; V Applications of the spinal decomposition theorem ; VI Branching random walks with selection ; VII Biased random walks on Galton-Watson trees ; A Sums of i.i.d. random variables ; References
Sommario/riassunto	Providing an elementary introduction to branching random walks, the main focus of these lecture notes is on the asymptotic properties of one-dimensional discrete-time supercritical branching random walks, and in particular, on extreme positions in each generation, as well as the evolution of these positions over time. Starting with the simple case of Galton-Watson trees, the text primarily concentrates on exploiting, in various contexts, the spinal structure of branching random walks. The notes end with some applications to biased random walks on trees