

1. Record Nr.	UNISALENTO991003626969707536
Autore	Chatterjee, Sourav
Titolo	Large deviations for random graphs [e-book] : École d'Été de Probabilités de Saint-Flour XLV - 2015 / by Sourav Chatterjee
Pubbl/distr/stampa	Cham : Springer, 2017
ISBN	9783319658162 3319658166
Descrizione fisica	1 online resource (xi, 170 p.)
Collana	Lecture notes in mathematics, 0075-8434 ; 2197
Classificazione	AMS 60F10 AMS 05C80 LC QA274-274.9
Disciplina	519.2
Soggetti	Probabilities Combinatorial analysis Random graphs - Congresses Large deviations - Congresses
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	1. Introduction -- 2. Preparation -- 3. Basics of graph limit theory -- 4. Large deviation preliminaries -- 5. Large deviations for dense random graphs -- 6. Applications of dense graph large deviations -- 7. Exponential random graph models -- 8. Large deviations for sparse graphs -- Index.
Sommario/riassunto	This book addresses the emerging body of literature on the study of rare events in random graphs and networks. For example, what does a random graph look like if by chance it has far more triangles than expected? Until recently, probability theory offered no tools to help answer such questions. Important advances have been made in the last few years, employing tools from the newly developed theory of graph limits. This work represents the first book-length treatment of this area, while also exploring the related area of exponential random graphs. All required results from analysis, combinatorics, graph theory and classical large deviations theory are developed from scratch, making the text self-contained and doing away with the need to look up external references. Further, the book is written in a format and

style that are accessible for beginning graduate students in
mathematics and statistics
