

1. Record Nr.	UNINA9910919828003321
Autore	Schinazi Rinaldo B
Titolo	Classical and Spatial Stochastic Processes : With Applications to Biology // by Rinaldo B. Schinazi
Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Birkhäuser, , 2024
ISBN	9783031777608
Edizione	[3rd ed. 2024.]
Descrizione fisica	1 online resource (XII, 286 p. 16 illus.)
Disciplina	519.23
Soggetti	Stochastic processes Probabilities Biomathematics Biomatemàtica Processos estocàstics Stochastic Processes Probability Theory Mathematical and Computational Biology Llibres electrònics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Finite Markov Chains -- Random walks on finite graphs -- The first appearance of a pattern -- The ruin problem -- The Ehrenfest chain -- The simple symmetric random walk -- Asymmetric and higher dimension random walks -- Discrete time birth and death chains -- Discrete time branching process -- Recurrence on countable spaces -- Stationary distributions on countable spaces -- The Poisson process -- Continuous time birth and death chains -- Continuous time branching processes -- Percolation -- A cellular automaton -- A branching random walk -- The contact process on a homogeneous tree -- Appendix: A little more probability -- Bibliography -- Index.
Sommario/riassunto	This textbook provides an accessible approach to concepts and applications of stochastic processes ideal for a wide range of readers. This revised third edition features an intuitive reorganization with concrete topics introduced early on which are then used to demonstrate more abstract concepts in later chapters. The author has

kept chapters short and independent from each other, with several of the longer chapters from previous editions now divided into smaller, more manageable parts. These changes build upon previous editions to allow readers even greater flexibility. The applications that are covered feature active areas of research within biological modeling, such as cancerous mutations, influenza evolution, drug resistance, and immune response. Important problems in fields such as engineering and mathematical physics are presented as well. These topics elegantly apply various classical stochastic models and are motivated throughout with many worked out examples. This third edition of Classical and Spatial Stochastic Processes is suitable as a textbook for a first course in stochastic processes at the upper-undergraduate or graduate level. Because of its accessible approach, it may also be used as a self-study resource for researchers and practitioners in mathematics, engineering, physics, and mathematical biology.

2. Record Nr.	UNINA9910299056403321
Titolo	Ad Hoc Networks : 5th International ICST Conference, ADHOCNETS 2013, Barcelona, Spain, October 2013, Revised Selected Papers // edited by Mostafa Hashem Sherif, Abdelhamid Mellouk, Jun Li, Paolo Bellavista
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2014
ISBN	3-319-04105-3
Edizione	[1st ed. 2014.]
Descrizione fisica	1 online resource (X, 229 p.)
Collana	Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering, , 1867-822X ; ; 129
Disciplina	004.6
Soggetti	Computer networks Computers, Special purpose Application software Data protection Computer Communication Networks Special Purpose and Application-Based Systems Computer and Information Systems Applications Data and Information Security
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa

Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di contenuto	New Re-association Procedures for Reliable Handover in IEEE 802.15.4 Wireless Sensor Networks -- Mobile Data Collector Assignment and Scheduling for Minimizing Data Delay in Partitioned Wireless Sensor Networks -- HRTS: a Hierarchical Reactive Time Synchronization protocol for wireless sensor networks -- The Agony of Choice: Analysis of Routing Protocols in Chain Mesh Networks -- Traffic Modeling and Performance Evaluation in Vehicle to Infrastructure 802.11p Network Social-aware Opportunistic Routing Protocol based on User's Interactions and Interests -- Node Wake-Up via OVFS-Coded Bloom Filters in Wireless Sensor Networks -- To Eavesdrop or Jam, That is the Question Using Cluster Analysis to Detect Attackers in Vehicular Delay Tolerant Networks -- An Efficient and Secure ARP for Large-scale IEEE 802.11s-based Smart Grid Networks.
Sommario/riassunto	This book constitutes the thoroughly refereed proceedings of the 5th International Conference on Ad Hoc Networks, ADHOCNETS 2013, held in Paris, Barcelona, Spain, in October 2013. The 14 revised full papers presented were carefully selected and reviewed from numerous submissions. The papers cover a wide range of applications, commercial and military, such as mobile ad hoc networks, sensor networks, vehicular networks, underwater networks, underground networks, personal area networks, home networks, and large-scale metropolitan networks for smart cities. They are organized in topical sections on Wireless Sensor Networks, Routing, Applications, and Security.