Record Nr.	UNISA996418199503316
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Titolo	Stochastic dynamics in computational biology / / Stefanie Winkelmann, Christof SchuÌtte
Pubbl/distr/stampa	Cham, Switzerland : , : Springer, , [2020] ©2020
ISBN	3-030-62387-4
Edizione	[1st ed. 2020.]
Descrizione fisica	1 online resource (XVIII, 272 p. 55 illus., 46 illus. in color.)
Collana	Frontiers in Applied Dynamical Systems
Disciplina	570.285
Soggetti	Computational biology
	Systems biology
	Stochastic processes
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Introduction Well-mixed stochastic reaction kinetics Population scaling Temporal scaling Spatial scaling Summary and Outlook Mathematical background.
Sommario/riassunto	The aim of this book is to provide a well-structured and coherent overview of existing mathematical modeling approaches for biochemical reaction systems, investigating relations between both the conventional models and several types of deterministic-stochastic hybrid model recombinations. Another main objective is to illustrate and compare diverse numerical simulation schemes and their computational effort. Unlike related works, this book presents a broad

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