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Autore	Ridi, Riccardo <1963- >
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2. Record Nr.	UNINA9910786749503321
Autore	Shmulevich Ilya <1969->
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Nota di contenuto	Front matter -- Contents -- Preface -- Chapter One. Biological Foundations -- Chapter Two. Deterministic Models of Gene Networks -- Chapter Three. Stochastic Models of Gene Networks -- Chapter Four. Classification -- Chapter Five. Regularization -- Chapter Six. Clustering -- Index
Sommario/riassunto	Genomic signal processing (GSP) can be defined as the analysis, processing, and use of genomic signals to gain biological knowledge, and the translation of that knowledge into systems-based applications that can be used to diagnose and treat genetic diseases. Situated at the crossroads of engineering, biology, mathematics, statistics, and computer science, GSP requires the development of both nonlinear dynamical models that adequately represent genomic regulation, and diagnostic and therapeutic tools based on these models. This book facilitates these developments by providing rigorous mathematical definitions and propositions for the main elements of GSP and by paying attention to the validity of models relative to the data. Ilya

Shmulevich and Edward Dougherty cover real-world situations and explain their mathematical modeling in relation to systems biology and systems medicine. Genomic Signal Processing makes a major contribution to computational biology, systems biology, and translational genomics by providing a self-contained explanation of the fundamental mathematical issues facing researchers in four areas: classification, clustering, network modeling, and network intervention.
