

1.	Record Nr.	UNIBAS000011329
	Titolo	Arithmetic geometry : Cortona 1994 / edited by Fabrizio Catanese
	Pubbl/distr/stampa	Cambridge : Cambridge University Press, 1997
	ISBN	0-521-59133-3
	Descrizione fisica	X, 300 p. ; 24 cm.
	Collana	Symposia Mathematica ; 37
	Disciplina	516
	Soggetti	Geometria Aritmetica
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
2.	Record Nr.	UNISA996485662103316
	Titolo	Cancer, Complexity, Computation [[electronic resource] /] / edited by Igor Balaz, Andrew Adamatzky
	Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2022
	ISBN	3-031-04379-0
	Edizione	[1st ed. 2022.]
	Descrizione fisica	1 online resource (349 pages)
	Collana	Emergence, Complexity and Computation, , 2194-7295 ; ; 46
	Disciplina	610.28
	Soggetti	Engineering mathematics Engineering - Data processing Dynamics Nonlinear theories Cancer - Animal models Mathematical and Computational Engineering Applications Applied Dynamical Systems Cancer Models Enginyeria biomèdica Tumors Resistència als medicaments Llibres electrònics

Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	What Cancer Is by J. James Frost -- Complementarity, Complexity and the Fokker-Planck Equation; From the Microscale Quantum Stochastic Events to Fractal Dynamics of Cancer -- Quantitative in vivo Imaging to Enable Tumor Forecasting and Treatment Optimization.
Sommario/riassunto	<p>This book presents unique compendium of groundbreaking ideas where scientists from many different backgrounds are united in their interest in interdisciplinary approaches towards origins and development of cancers, innovative ways of searching for cancer treatment and the role of cancer in the evolution. Chapters give an unequivocal slice of all areas that relate to a quest for understanding cancer and its origin as many-fold nonlinear system, complexity of the cancer developments, a search for cancer treatment using artificial intelligence and evolutionary optimisation, novel modelling techniques, molecular origin of cancer, the role of cancer in evolution of species, interpretation of cancer in terms of artificial life and artificial immune systems, swarm intelligence, cellular automata, computational systems biology, genetic networks, cellular computing, validation through in vitro/vivo tumour models and tumour on chip devices. The book is an inspiring blend of theoretical and experimental results, concepts and paradigms. Distinctive features The book advances widely popular topics of cancer origin, treatment and understanding of its progress The book is comprised of unique chapters written by world top experts in theoretical and applied oncology, complexity theory, mathematics, computer science. The book illustrates attractive examples of mathematical and computer models and experimental setups.</p>