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	Titolo	The fragmentary Latin poets / edited with commentary by Edward Courtney
	Pubbl/distr/stampa	XXV, 504 p. ; 23 cm
	ISBN	01-981477-5-9
	Edizione	[Oxford : Clarendon]
	Descrizione fisica	Testo latino con commento in inglese.
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	Formato	Materiale a stampa
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2.	Record Nr.	UNINA9910483146703321
	Titolo	Handbook of Natural Computing [[electronic resource] /] / edited by Grzegorz Rozenberg, Thomas Bäck, Joost N. Kok
	Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2012
	ISBN	1-78402-699-9 3-540-92910-X
	Edizione	[1st ed. 2012.]
	Descrizione fisica	1 online resource (332 illus., 60 illus. in color. eReference.)
	Collana	Springer reference
	Disciplina	006.38
	Soggetti	Computers Computational intelligence Artificial intelligence Quantum computers Spintronics Systems biology Nanotechnology Theory of Computation Computational Intelligence Artificial Intelligence Quantum Information Technology, Spintronics Systems Biology

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Nota di bibliografia	Includes bibliographical references and index.
Sommario/riassunto	<p>Natural Computing is the field of research that investigates both human-designed computing inspired by nature and computing taking place in nature, i.e., it investigates models and computational techniques inspired by nature and also it investigates phenomena taking place in nature in terms of information processing. Examples of the first strand of research covered by the handbook include neural computation inspired by the functioning of the brain; evolutionary computation inspired by Darwinian evolution of species; cellular automata inspired by intercellular communication; swarm intelligence inspired by the behavior of groups of organisms; artificial immune systems inspired by the natural immune system; artificial life systems inspired by the properties of natural life in general; membrane computing inspired by the compartmentalized ways in which cells process information; and amorphous computing inspired by morphogenesis. Other examples of natural-computing paradigms are molecular computing and quantum computing, where the goal is to replace traditional electronic hardware, e.g., by bioware in molecular computing. In molecular computing, data are encoded as biomolecules and then molecular biology tools are used to transform the data, thus performing computations. In quantum computing, one exploits quantum-mechanical phenomena to perform computations and secure communications more efficiently than classical physics and, hence, traditional hardware allows. The second strand of research covered by the handbook, computation taking place in nature, is represented by investigations into, among others, the computational nature of self-assembly, which lies at the core of nanoscience, the computational nature of developmental processes, the computational nature of biochemical reactions, the computational nature of bacterial communication, the computational nature of brain processes, and the systems biology approach to bionetworks where cellular processes are treated in terms of communication and interaction, and, hence, in terms of computation. We are now witnessing exciting interaction between computer science and the natural sciences. While the natural sciences are rapidly absorbing notions, techniques and methodologies intrinsic to information processing, computer science is adapting and extending its traditional notion of computation, and computational techniques, to account for computation taking place in nature around us. Natural Computing is an important catalyst for this two-way interaction, and this handbook is a major record of this important development.</p>