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Titolo	Bio-inspired and nanoscale integrated computing / / edited by Mary Mehrnoosh Eshaghian-Wilner
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Edizione	[1st ed.]
Descrizione fisica	1 online resource (573 p.)
Collana	Nature-inspired and nanoscale integrated computing
Altri autori (Persone)	Eshaghian-WilnerMary Mehrnoosh
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Soggetti	Molecular computers Natural computation Nanotechnology Nanomedicine
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Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	BIO-INSPIRED AND NANOSCALE INTEGRATED COMPUTING; CONTENTS; Foreword; Preface; Contributors; 1 AN INTRODUCTION TO NANOCOMPUTING; 2 NANOSCALE DEVICES: APPLICATIONS AND MODELING; 3 QUANTUM COMPUTING; 4 COMPUTING WITH QUANTUM-DOT CELLULAR AUTOMATA; 5 DIELECTROPHORETIC ARCHITECTURES; 6 MULTILEVEL AND THREE-DIMENSIONAL NANOMAGNETIC RECORDING; 7 SPIN-WAVE ARCHITECTURES; 8 PARALLEL COMPUTING WITH SPIN WAVES; 9 NANOSCALE STANDARD DIGITAL MODULES; 10 FAULT- AND DEFECT-TOLERANT ARCHITECTURES FOR NANOCOMPUTING; 11 MOLECULAR COMPUTING: INTEGRATION OF MOLECULES FOR NANOCOMPUTING 12 SELF-ASSEMBLY OF SUPRAMOLECULAR NANOSTRUCTURES: ORDERED ARRAYS OF METAL IONS AND CARBON NANOTUBES13 DNA NANOTECHNOLOGY AND ITS BIOLOGICAL APPLICATIONS; 14 DNA

	SEQUENCE MATCHING AT NANOSCALE LEVEL; 15 COMPUTATIONAL TASKS IN MEDICAL NANOROBOTICS; 16 HETEROGENEOUS NANOSTRUCTURES FOR BIOMEDICAL DIAGNOSTICS; 17 BIOMIMETIC CORTICAL NANOCIRCUITS; 18 BIOMEDICAL AND BIOMEDICINE APPLICATIONS OF CNTs; 19 NANOSCALE IMAGE PROCESSING; 20 CONCLUDING REMARKS AT THE BEGINNING OF A NEW COMPUTING ERA; Index
Sommario/riassunto	Brings the latest advances in nanotechnology and biology to computing This pioneering book demonstrates how nanotechnology can create even faster, denser computing architectures and algorithms. Furthermore, it draws from the latest advances in biology with a focus on bio-inspired computing at the nanoscale, bringing to light several new and innovative applications such as nanoscale implantable biomedical devices and neural networks. Bio-Inspired and Nanoscale Integrated Computing features an expert team of interdisciplinary authors who offer readers the benefit of their own breakthroughs i

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Autore	Rauschenbach, Bernd
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