

1. Record Nr.	UNISA996465550303316
Titolo	DNA Computing [[electronic resource]] : 14th International Meeting on DNA Computing, DNA 14, Prague, Czech Republic, June 2-9, 2008. Revised Selected Papers / / edited by Ashish Goel, Friedrich C. Simmel, Petr Sosik
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2009
ISBN	3-642-03076-9
Edizione	[1st ed. 2009.]
Descrizione fisica	1 online resource (X, 191 p.)
Collana	Theoretical Computer Science and General Issues, , 2512-2029 ; ; 5347
Classificazione	DAT 168f SS 4800
Disciplina	004
Soggetti	Bioinformatics Nanotechnology Algorithms Computer science Artificial intelligence Computational and Systems Biology Theory of Computation Artificial Intelligence
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Experimental Validation of Signal Dependent Operation in Whiplash PCR -- Towards DNA Comparator: The Machine That Compares DNA Concentrations -- Construction of Photon-Fueled DNA Nanomachines by Tethering Azobenzenes as Engines -- Operon Structure Optimization by Random Self-assembly -- Isothermal Reactivating Whiplash PCR for Locally Programmable Molecular Computation -- DNA as a Universal Substrate for Chemical Kinetics -- A Simple DNA Gate Motif for Synthesizing Large-Scale Circuits -- Tiamat: A Three-Dimensional Editing Tool for Complex DNA Structures -- Connecting the Dots: Molecular Machinery for Distributed Robotics -- Polyomino-Safe DNA Self-assembly via Block Replacement -- Robust Self-assembly of Graphs -- Time Optimal Self-assembly for 2D and 3D

Shapes: The Case of Squares and Cubes -- Self-assembly of Discrete
Self-similar Fractals -- Speeding Up Local-Search Type Algorithms for
Designing DNA Sequences under Thermodynamical Constraints --
Sequentiality Induced by Spike Number in SNP Systems.
