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From the end of last century, DNA computing has appeared as a relatively new computational paradigm [1, 11]. In contrast, automata theory is from the middle of the last century and it is one of the...

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We started from the belief that one of the possible ways by which DNA computing will contribute to the computer science is by contributing to the theory of computing, by suggesting new computability paradigms and tools: new data structures (the double strand is the main one), new operations with these structures or with usual data structures, new computing models, and new computing strategies.

*New computing paradigms suggested by DNA computing ...*

@inproceedings{Paun1998DNACN, title={DNA Computing: New Computing Paradigms}, author={G. Paun and G. Rozenberg and A. Salomaa}, year={1998} } This is the first book on DNA computing, a molecular approach that may revolutionize computing-replacing silicon with carbon and microchips with DNA molecules ...

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DNA Computing: New Computing Paradigms (Texts in Theoretical Computer Science. An EATCS Series) Hardcover – Illustrated, September 15, 1998. by Gheorghe Paun (Author), Grzegorz Rozenberg (Author), Arto Salomaa (Author) & 0 more. 4.5 out of 5 stars 2 ratings. See all formats and editions.

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DNA computing is an emerging branch of computing which uses DNA, biochemistry, and molecular biology hardware, instead of the traditional silicon-based computer technologies. Research and development in this area concerns theory, experiments, and applications of DNA computing. Although the field originally started with the demonstration of a computing application by Len Adleman in 1994, it has now been expanded to several other avenues such as the development of storage technologies, nanoscale i

*DNA computing - Wikipedia*

DNA Computing: New Computing Paradigms: Paun, Gheorghe, Rozenberg, Grzegorz, Salomaa, Arto: Amazon.sg: Books

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IJICA proposes and fosters discussion on all new computing paradigms and corresponding applications to solve real-world problems. It will cover all aspects related to evolutionary computation, quantum-inspired computing, swarm-based computing, neuro-computing, DNA computing and fuzzy computing, as well as other new computing paradigms.

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This is the first book on DNA computing, a molecular approach that may revolutionize computing-replacing silicon with carbon and microchips with DNA molecules. The book starts with an introduction to DNA computing, exploring the power of complementarity, the basics of biochemistry, and language and computation theory.

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DNA computing is a relatively new computing paradigm that has attracted great interest in the computing community. Its inherent capacity for vast parallelism, the scope for high-density storage and its intrinsic ability for potentially solving many combinatorial problems are just some of the reasons for this.