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Sommario/riassunto

In computer science, a search algorithm, is an algorithm for finding an item with specified properties among a collection of items. The items may be stored individually as records in a database; or may be elements of a search space defined by a mathematical formula or procedure, such as the roots of an equation with integer variables; or a combination of the two, such as the Hamiltonian circuits of a graph. This book presents research data in the study of computer search algorithms, including live soft-matter quantum computing; heuristic searches applied to the resolution of a relevant optimization problem from the telecommunications domain; the emergence and advances of quantum search algorithms; an equilibrium network design problem for road traffic network; artificial neural networks; and evolutionary algorithms based on the concept of stochastic schemata exploiter.

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