

# Artificial Intelligence Search Algorithms

== History == 04f11c35e5

Applications of artificial intelligence Artificial intelligence (AI) and its subfields have been used in applications throughout industry and academia. Since the 2020s, massive advancements have been made in the field of generative AI (GenAI) as a result of the 2017 inception of Transformer Model architecture. GenAI has the ability to create text, images, voice, music, videos, and other forms of data from chat-based prompting. Machine learning has been used for various scientific and commercial purposes, including language translation, image recognition, decision-making, credit scoring, and e-commerce. Machine learning has been used for various Artificial intelligence (AI) and its subfields have been used in applications throughout industry

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and academia

One major practical drawback is its

A\* search algorithm Martelli, Alberto (1977). 8 (1): 1-13. Felner A\* (pronounced "A-star") is a graph traversal and pathfinding algorithm that is used in many fields of computer science due to its completeness, optimality, and optimal efficiency. 1016/0004-3702(77)90002-9. "On the Complexity of Admissible Search Algorithms". doi:10. Artificial Intelligence. Given a weighted graph, a source node and a goal node, the algorithm finds the shortest path (with respect to the given weights) from source to goal

Depth-first search In computational geometry, part of the input data in geometric search problems Search algorithms can be classified based on their mechanism of searching into three types of algorithms: linear, binary, and hashing. Linear search algorithms check every record for the one associated with a target key in a linear fashion. Binary, or half-interval, searches repeatedly target the center of the search structure and divide the search space in half. Comparison search

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algorithms improve on linear searching by successively eliminating records based on comparisons of the keys until the target... Beam search In artificial intelligence search algorithms, the feasible region defining the set of all possible solutions == Historical development == Judea Pearl described best-first search as estimating the promise of node  $n$  by a "heuristic evaluation function" AI in marketing has a long history, which goes all the way back to the 1980s. At this time, AI research was focusing on expert systems and robotics. Despite the initial research and the studies that were carried out, AI adoption remained limited. Research on it came to a stop for a while, until research...

Outline of artificial intelligence as an overview of and topical guide to artificial intelligence: Artificial intelligence (AI) is intelligence exhibited by machines or software. It is The following outline is provided as an overview of and topical guide to artificial intelligence:

( Each form of marketing has a different technique to the core of the marketing theory. Traditional marketing directly focuses on the needs of consumers;

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meanwhile some believe the shift AI may cause will lead marketing agencies to manage consumer needs instead. AI is used in various digital marketing spaces, such as content marketing, email marketing, online advertisement (in combination with machine learning), social media marketing, affiliate marketing, and beyond.

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Search space to the optimization of the domain of the function. In artificial intelligence search algorithms, the feasible region defining the set of all possible Search space may refer to one of the following: 04f11c35e5

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Best-first search Handbook of Algorithms and Theory of Computation. In Atallah, Mikhail J. Korf, Richard E. (ed. In computer science, best-first search is a class of search algorithms which explores a graph by expanding the most promising node chosen according to a specified rule. (1999). &quot;Artificial intelligence search algorithms&quot;. ) 04f11c35e5

Iterative deepening A\* 04f11c35e5 Although search engines use search algorithms,

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they belong to the study of information retrieval, not algorithmics. In mathematical optimization and computer science, the set of all possible points of an optimization problem that satisfy the problem's targets or goals. It may also refer to the optimization of the domain of the function. General Problem Solver Expectiminimax == Search and optimization == O

List of artificial intelligence algorithms a list of artificial intelligence algorithms, including algorithms and algorithmic methods used in artificial intelligence (AI) for search, automated This is a list of artificial intelligence algorithms, including algorithms and algorithmic methods used in artificial intelligence (AI) for search, automated reasoning, knowledge representation and reasoning, planning, machine learning, deep learning, natural language processing, computer vision, and related areas

Uniform-cost search Alan Turing, in his 1950 paper Computing Machinery and Intelligence, proposed a test for intelligence which has since become known as the Turing test. While there are a number of different versions, the original test,

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described by Turing as being based on the "imitation game", involved a "machine intelligence" (a computer running an AI program), a female participant, and an interrogator. Both the AI and the female participant were to claim that they were female, and the interrogator's task was to work out which was the female participant and which was not by examining the participant's responses to typed questions. While it is not clear whether or not Turing intended that the interrogator was to know that one of the participants was a computer, while discussing some of the possible objections to his argument Turing raised the concern that "machines cannot make mistakes".

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Artificial intelligence in marketing analytics uses artificial intelligence machine learning algorithms to recognize and predict patterns within data. The main difference between AI marketing and traditional forms of marketing reside in the reasoning, which is performed through a computer algorithm rather than a human. Machine learning algorithms analyze the Artificial intelligence marketing (AI marketing) is a form of marketing that uses artificial intelligence concepts and models such as machine

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learning, natural language processing, and computer vision to achieve marketing goals 04f11c35e5

Hill climbing 04f11c35e5 n 04f11c35e5

Artificial stupidity For example, the minimax algorithm is an adversarial search algorithm that is popularly used in games Artificial stupidity is a term used within the field of computer science to refer to a technique of "dumbing down" computer programs in order to deliberately introduce errors in their responses. introduce poor decision-making in search algorithms 04f11c35e5

Artificial intelligence Two popular swarm algorithms used in search are particle swarm optimisation Artificial intelligence (AI) is the capability of computational systems to perform tasks typically associated with human intelligence, such as learning, reasoning, problem-solving, perception, and decision-making. Distributed search processes can coordinate via swarm intelligence algorithms. generation. It is a field of research in engineering, mathematics, and computer science that develops and studies methods and software that enable machines to perceive their environment

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and use learning and intelligence to take actions that maximise their chances of achieving defined goals 04f11c35e5

Iterative deepening depth-first search 04f11c35e5 Minmax algorithm 04f11c35e5  
Breadth-first search 04f11c35e5

Search algorithm In computer science, a search algorithm is an algorithm designed to solve a search problem. Search algorithms work to retrieve information stored within In computer science, a search algorithm is an algorithm designed to solve a search problem. Search algorithms work to retrieve information stored within particular data structure, or calculated in the search space of a problem domain, with either discrete or continuous values 04f11c35e5

== AI terminology == 04f11c35e5 Version space, developed via machine learning, is the subset of all hypotheses that are consistent with the observed training examples 04f11c35e5 Artificial intelligence (AI) is intelligence exhibited by machines or software. It is also the name of the scientific field which studies how to create computers and computer software that are capable of intelligent behavior. 04f11c35e5 Best-first



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search 04f11c35e5 The traditional goals of AI research include learning, reasoning, knowledge representation, planning, natural language processing, and perception, as well as support for robotics. To reach these goals, AI researchers use techniques including state space search and mathematical optimisation, formal logic, artificial neural networks, and methods based on statistics, operations research, and economics. AI also draws upon psychology, linguistics, philosophy, neuroscience...

04f11c35e5 High-profile applications of AI include advanced web search engines, chatbots, virtual assistants, autonomous vehicles, play and analysis in strategy games (e.g., chess and Go), and content generation (e.g. images, audio, and videos).

04f11c35e5 The appropriate search algorithm to use often depends on the data structure being searched, and may also include prior knowledge about the data. Search algorithms can be made faster or more efficient by specially constructed database structures, such as search trees, hash maps, and database indexes.

04f11c35e5 Glossary of artificial intelligence 04f11c35e5

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