

# Case Based Reasoning Technology From Foundations To Applications Lecture Notes In Computer Science

Michael Genesereth His 1987 textbook on Logical Foundations of Artificial Intelligence remains one of the key references on symbolic artificial intelligence. doi:10 Michael Genesereth (born 1948) is an American logician and computer scientist, who is most known for his work on computational logic and applications of that work in enterprise management, computational law, and general game playing. 9202. Lecture Notes in Computer Science. Genesereth is professor in the Computer Science Department at Stanford University and a professor by courtesy in the Stanford Law School. He is the author of the influential Game Description Language (GDL) and Knowledge Interchange Format (KIF), the latter of which led to the ISO Common Logic standard. Rule Technologies: Foundations, Tools, and Applications. 3–12. Vol. Thinking Inside the Box&quot;. pp 803f761118

Abductive reasoning, unlike deductive reasoning, yields a plausible conclusion but does not definitively verify it. Abductive conclusions do not eliminate uncertainty or doubt, which is expressed in terms such as "best available" or "most likely". While inductive reasoning draws general conclusions that apply to many situations, abductive conclusions are confined to the particular observations in question. 803f761118 Most computer-aided proofs to date have been implementations of large proofs-by-exhaustion of a mathematical theorem. The idea is to use a computer program to perform lengthy computations, and to provide a proof that the result of these computations implies the given theorem. In 1976, the four color theorem was the first major theorem to be verified using a computer program. 803f761118

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It has been argued that case-based reasoning is not only a powerful method for computer reasoning, but also a pervasive behavior in everyday human problem solving; or, more... 803f761118

Case-based reasoning (1998). 1400 Case-based reasoning (CBR), broadly construed, is the process of solving new problems based on the solutions of similar past problems. Lecture Notes in Artificial Intelligence. Vol. Case-Based Reasoning Technology: From Foundations to Applications. Hans-Dieter; Wess, Stefan, eds 803f761118

In the 1980s and 1990s, philosophical theories of arguments in general, and argumentation theory in particular, were leveraged to handle key computational challenges, such as modeling non-monotonic and defeasible reasoning and designing robust coordination protocols for multi-agent systems. At the same time, mechanisms for computing semantics of Argumentation frameworks were introduced as a way of providing a calculus of opposition for computing what it is reasonable to believe in the context of conflicting arguments. 803f761118

Glossary of computer science This glossary of computer science is a list of definitions of terms and concepts used in computer science, its sub-disciplines, and related fields, including This glossary of computer science is a list of definitions of terms and concepts used in computer science, its sub-disciplines, and related fields, including terms relevant to software, data science, and computer programming 803f761118

In the 1990s, as computing power grew, the fields of law,... 803f761118

Educational technology : Selling, Automating and Globalizing Higher Education in the Digital Age, Tanner Mirrlees and Shahid Alvi (2019) argue "EdTech is no exception to industry ownership and market rules" and "define the EdTech industries as all the privately owned companies currently involved in the financing, production and distribution of commercial hardware, software, cultural goods, services and platforms for the educational market with the goal of turning a profit. 7926, Springer Berlin Heidelberg Educational technology (commonly abbreviated as edutech, or edtech) is the combined use of computer hardware, software, and educational theory and practice to facilitate learning and teaching. In EdTech Inc. Many of. When referred to with its abbreviation, "EdTech", it often refers to the industry of companies that create educational technology. "Wheel-Spinning: Students Who Fail to Master a Skill", Artificial Intelligence in Education, Lecture Notes in Computer Science, vol 803f761118

In everyday life, an auto mechanic who fixes an engine by recalling another car that exhibited similar symptoms is using case-based reasoning. A lawyer who advocates a particular outcome in a trial based on legal precedents or a judge who creates case law is using case-based reasoning. So, too, an engineer copying working elements of nature (practicing biomimicry) is treating nature as a database of solutions to problems. Case-based reasoning is a prominent type of analogy solution making. 803f761118

Semantics (computer science) computation&quot;. Semantics assigns computational meaning to valid strings in a programming language syntax. Category Theory Applied to Computation and Control. It is closely related to, and often crosses over with, the semantics of mathematical proofs. Lecture Notes in Computer Science. pp. 151–163. Vol. 1007/3-540-07142-3\_75 In programming language theory, semantics is the rigorous mathematical study of the meaning of programming languages. doi:10. Springer. 25 803f761118

With these foundations in place... 803f761118 Attempts have also been made in the area of artificial intelligence research to create smaller, explicit, new proofs of mathematical theorems from the bottom up using automated reasoning techniques such as heuristic search. Such automated theorem provers have proved a number of new results and found new proofs for... 803f761118

Argument technology 7926. Lecture notes in computer science. AIED 2013, Memphis, TN, USA, July 9–13, 2013: proceedings. pp. Berlin; New York: Springer-Verlag. 591–594 Argument technology is a sub-field of collective intelligence and artificial intelligence that focuses on applying computational techniques to the creation, identification, analysis, navigation, evaluation and visualisation of arguments and debates. Vol 803f761118

Semantics describes the processes a computer follows when executing a program in that specific language. This can be done by describing the relationship between the input and output of a program, or giving an explanation of how the program will be executed on a certain platform, thereby creating a model of computation. 803f761118 Every academic discipline or field, in creating its terminology, thereby lays the groundwork for an ontology. Each uses ontological assumptions to frame explicit theories, research and applications. Improved ontologies may improve problem solving within that domain... 803f761118

Abductive reasoning ) Abductive reasoning (also called abduction, abductive inference, or retroduction) is a form of logical inference that seeks the simplest and most likely conclusion from a set of observations. It was formulated and advanced by American philosopher and logician Charles Sanders Peirce beginning in the latter half of the 19th century. Magnani, Lorenzo (2014), &quot;Understanding abduction&quot;, Model-Based Reasoning in Science and Technology: Theoretical and Cognitive Issues (editor—Magnani L 803f761118

Computer-assisted proof In Peltier, Nicolas; Sofronie-Stokkermans, Viorica (eds. 12166. Automated Reasoning. Vol. Lecture Notes in Computer Science. ). Springer A computer-assisted proof is a mathematical proof that has been at least partially generated by computer. Keller&#039;s Conjecture&quot; 803f761118

Ontology (information science) User Modeling 2003. 2702. Springer In information science, an ontology encompasses a representation, formal naming, and definitions of the categories, properties, and relations between the concepts, data, or entities that pertain to one, many, or all domains of discourse. A. (2003). Vol. More simply, an ontology is a way of showing the properties of a subject area and how they are related, by defining a set of terms and relational expressions that represent the entities in that subject area. The field which studies ontologies so conceived is sometimes referred to as applied ontology. &quot;Ontology-Based User Modeling for Knowledge Management Systems&quot;. Lecture Notes in Computer Science 803f761118

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