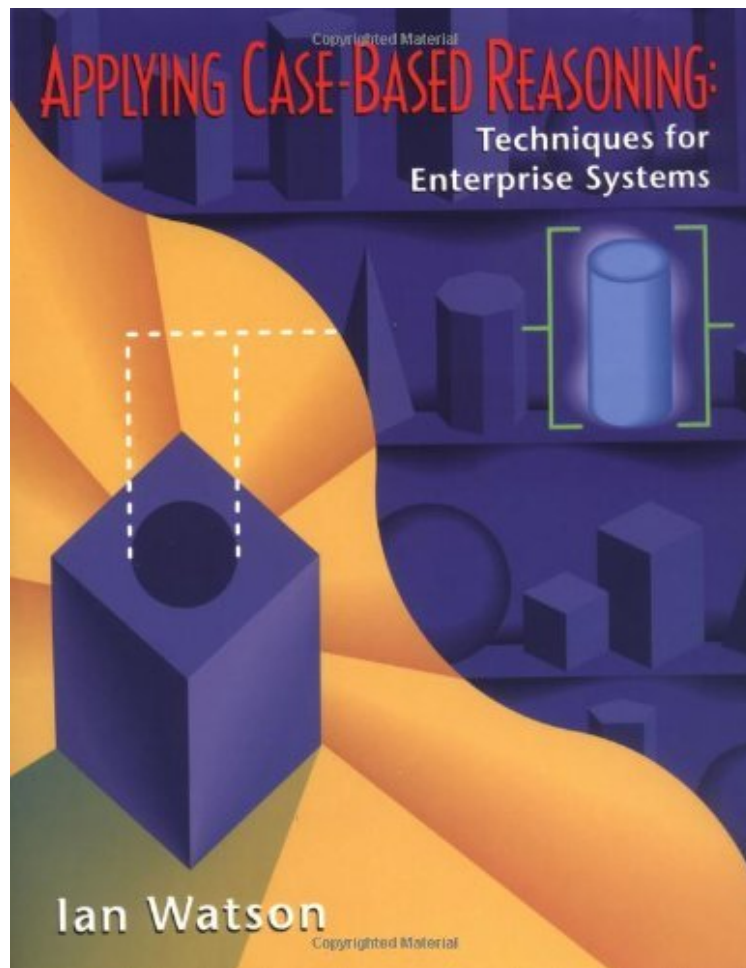


[Free] Applying Case-Based Reasoning: Techniques for Enterprise Systems (The Morgan Kaufmann Series in Artificial Intelligence)

Applying Case-Based Reasoning: Techniques for Enterprise Systems (The Morgan Kaufmann Series in Artificial Intelligence)

Von Ian Watson

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Von Ian Watson : Applying Case-Based Reasoning: Techniques for Enterprise Systems (The Morgan Kaufmann Series in Artificial Intelligence) before purchasing it in order to gage whether or not it would be worth my time, and all praised Applying Case-Based Reasoning: Techniques for Enterprise Systems (The Morgan Kaufmann Series in Artificial Intelligence):

KundenrezensionenHilfreichste Kundenrezensionen0 von 0 Kunden fanden die folgende Rezension hilfreich. Excellent introduction to case-based reasoningVon Ein KundeThis book is easily the best of its type, there is no other introductory book on CBR available! I bought this at AAAI-97 and found it extremely easy to read and sensibly layed out. It provides a good comparison of CBR with other AI and IS techniques and clearly explains what CBR's unique

strengths (and to be fair) weaknesses are. A sensible range of application case-studies both academic and commercial are described and a wide range of CBR tools are described and compared. The book concludes with some methodological guidelines for building case-based systems. I would have no hesitation in recommending this book to undergraduate and postgraduate students who want an approachable introduction to CBR. The book will also be invaluable to commercial developers who are thinking of deploying a case-based system. Finally, the book's remarkably extensive bibliography, which is categorised to make finding references on specific subjects easy to find, will mean that ALL researchers in CBR should buy this book - it will save you days in the library. To conclude, an excellent book that will satisfy a wide range of readers0 von 0 Kunden fanden die folgende Rezension hilfreich. Straightforward writtenVon Reinhard.Arlt@ipk.fhg.deThe author gives a comprehensible introduction to the field of Case Base Reasoning (CBR). He starts with an overview to the various techniques and algorithms to be used with CBR and formulates practical criteria when to use them and when not (e.g. adaptation). Very usefull are the differences to other AI approaches and the criteria to check the applicability of these methods. A chapter on CBR software tools reviews a series of available tools and development shells. Practical examples, especially on helpdesk applications show how CBR has been used successfully in projects. All in all the book demystifies CBR and encourages the use of it for building up decision support systems.

KurzbeschreibungCase-based reasoning (CBR) is an intelligent-systems method that enables information managers to increase efficiency and reduce cost by substantially automating processes such as diagnosis, scheduling and design. A case-based reasoner works by matching new problems to "cases" from a historical database and then adapting successful solutions from the past to current situations. Organizations as diverse as IBM, VISA International, Volkswagen, British Airways, and NASA have already made use of CBR in applications such as customer support, quality assurance, aircraft maintenance, process planning, and decision support, and many more applications are easily imaginable. It is relatively simple to add CBR components to existing information systems, as this book demonstrates. The author explains the principles of CBR by describing its origins and contrasting it with familiar information disciplines such as traditional data processing, logic programming, rule-based expert systems, and object-oriented programming. Through case studies and step-by-step examples, he goes on to show how to design and implement a reliable, robust CBR system in a real-world environment. Additional resources are provided in a survey of commercially available CBR tools, a comprehensive bibliography, and a listing of companies providing CBR software and services..deCase-based reasoning (CBR) is one of the most promising recent technologies for building intelligence into computers. This useful introduction to the technology shows what CBR is, why it is important, and how it can be applied to some intriguing real-world problems. The early part of this text outlines the the so-called four "re-'s" of CBR: retrieve, reuse, revise, and retain. Basically, CBR systems match possible solutions to a database of earlier questions, retrieve the answer, and adapt (or revise) it. If appropriate, CBR systems can even save (or retain) these new problems and solutions to its "case-base" for later reuse. For example, if your car does not start, you can use a CBR to match the characteristics of your problem with a database of diagnoses. The author does a fine job of distinguishing CBR from other artificial intelligence models, such as expert systems (which are rules-based and can be hard to develop because experts don't always get their expertise translated perfectly by programmers) and neural networks (CBR can be more accurate because it can match characteristics and give a reason, while a neural network cannot), and proving that CBR can be faster computationally. He also gives an excellent presentation on how CBR has been used successfully in a surprising range of applications, such as manufacturing, medicine, law, and help desk systems for products, including Web-based applications systems for users. (Help desk applications are a natural fit for CBR technology, but they are not its only use.) CBR has already enjoyed considerable success without many people knowing about it. (As the author suggests, expert systems, a promising older artificial intelligence [AI] technology, never quite lived up to its initial dazzle.) The author shows that CBR research has already been used to create products. He provides a survey of tools from two continents as well as an extensive bibliography for those experts who want to read more on the subject.KurzbeschreibungCase-based reasoning (CBR) is an intelligent-systems method that enables information managers to increase efficiency and reduce cost by substantially automating processes such as diagnosis, scheduling and design. A case-based reasoner works by matching new problems to "cases" from a historical database and then adapting successful solutions from the past to current situations. Organizations as diverse as IBM, VISA International, Volkswagen, British Airways, and NASA have already made use of CBR in applications such as customer support, quality assurance, aircraft maintenance, process planning, and decision support, and many more applications are easily imaginable. It is relatively simple to add CBR components to existing information systems, as this book demonstrates. The author explains the principles of CBR by describing its origins and contrasting it with familiar information disciplines such as traditional data processing, logic programming, rule-based expert systems, and object-oriented programming. Through case studies and step-by-step examples, he goes on to show how to design and implement a reliable, robust CBR system in a real-world environment. Additional resources are provided in a survey

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