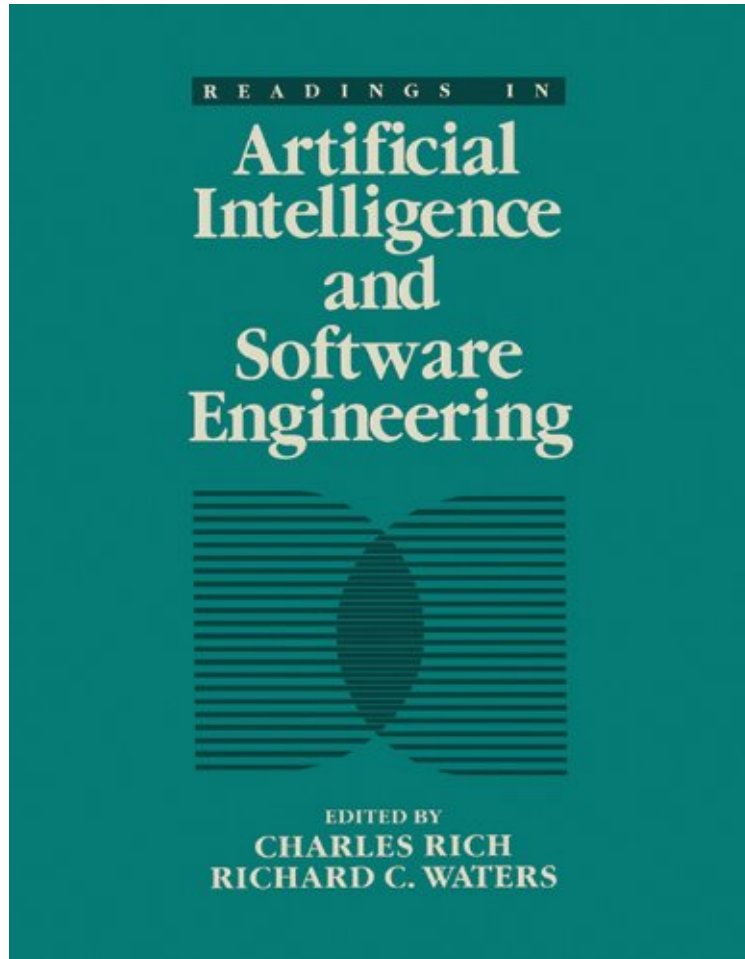


Readings in Artificial Intelligence and Software Engineering

Von Morgan Kaufmann

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Von Morgan Kaufmann : Readings in Artificial Intelligence and Software Engineering before purchasing it in order to gauge whether or not it would be worth my time, and all praised Readings in Artificial Intelligence and Software Engineering:

Kundenrezensionen Hilfreichste Kundenrezensionen 0 von 0 Kunden fanden die folgende Rezension hilfreich. Für unsere Bibliothek Von Romani, Ingrid Inhalt kann ich nicht beurteilen, habe das Buch für meinen Chef bestellt, kommt in die Bibliothek des Fachbereichs Informatik der TU Kaiserslautern.

Kurzbeschreibung Readings in Artificial Intelligence and Software Engineering covers the main techniques and application of artificial intelligence and software engineering. The ultimate goal of artificial intelligence applied to

software engineering is automatic programming. Automatic programming would allow a user to simply say what is wanted and have a program produced completely automatically. This book is organized into 11 parts encompassing 34 chapters that specifically tackle the topics of deductive synthesis, program transformations, program verification, and programming tutors. The opening parts provide an introduction to the key ideas to the deductive approach, namely the correspondence between theorems and specifications and between constructive proofs and programs. These parts also describes automatic theorem provers whose development has be designed for the programming domain. The subsequent parts present generalized program transformation systems, the problems involved in using natural language input, the features of very high level languages, and the advantages of the programming by example system. Other parts explore the intelligent assistant approach and the significance and relation of programming knowledge in other programming system. The concluding parts focus on the features of the domain knowledge system and the artificial intelligence programming. Software engineers and designers and computer programmers, as well as researchers in the field of artificial intelligence will find this book invaluable.

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Synopsis Research at the intersection of artificial intelligence and software engineering is important to both AI researchers and software engineers. For AI, programming is a challenging domain that stimulates fundamental research in knowledge representation and automated reasoning. In software engineering, AI techniques can be applied to programming tools with potential for dramatic improvements in programmer productivity. This volume, edited by two research scientists at the Artificial Intelligence Laboratory of MIT, collects thirty-four important papers covering a wide spectrum of work in this area. Major topics include automatic programming, theorem-proving approaches, transformational approaches, specification techniques, intelligent assistants, knowledge representation, and artificial intelligence programming. The editors have provided an introductory survey of the field and issues, introductions to each group of papers, and an extensive bibliography.