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Artificial Intelligence is the study of how to build or program computers to enable them to do what minds can do. This volume discusses the ways in which computational ideas and computer modeling can aid our understanding of human and animal minds. Major theoretical approaches are outlined, as well as some promising recent developments. Fundamental philosophical questions are discussed along with topics such as: the differences between symbolic and connectionist AI, planning and problem solving, knowledge representation, learning, expert systems, vision, natural language, creativity, and human-computer interaction. This volume is suitable for any psychologist, philosopher, or computer scientist wanting to know the current state of the art in this area of cognitive science.

- Up-to-date account of how computational ideas and techniques are relevant to psychology
- Includes discussions of "classical" (symbolic) AI, of connectionism (neural nets), of evolutionary programming, and of A-Life
- Discusses a wide range of psychology from low-level vision to creativity



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Editorial Review

Review

"An interesting collection of chapters on various topics within artificial intelligence--planning and problem solving, knowledge representation, learning, connectionism, expert systems, machine vision, natural language systems, robotics, creativity, and human-computer interaction. Major theoretical approaches are outlined and fundamental philosophical questions are discussed. Recommended for graduate students, professional researchers, and faculty (psychologists, philosophers, or computer scientists) interested in the current state of the art in artificial intelligence." --**C. TAPPERT, United States Military Academy**

From the Back Cover

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Key Features

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