

Cognitive Robotics: Intelligent Robotics and Autonomous Agents Series

Cognitive Robotics: Intelligent Robotics and Autonomous Agents Series provides a comprehensive overview of the state-of-the-art in cognitive robotics, covering topics such as cognitive architectures, learning and adaptation, planning and decision-making, and human-robot interaction. The series is edited by leading researchers in the field and features contributions from top researchers and practitioners.



Cognitive Robotics (Intelligent Robotics and Autonomous Agents series) by Angelo Cangelosi

★★★★☆ 4.8 out of 5

Language : English
File size : 59393 KB
Text-to-Speech : Enabled
Screen Reader : Supported
Enhanced typesetting: Enabled
Print length : 477 pages



Cognitive Architectures

Cognitive architectures are computational models of the human mind that can be used to design and build intelligent robots. Cognitive architectures typically include modules for perception, memory, attention, reasoning, and action. Some of the most popular cognitive architectures include SOAR, ACT-R, and EPIC.

Learning and Adaptation

Robots need to be able to learn and adapt in order to function in the real world. Learning algorithms can be used to train robots to perform new tasks, and adaptation algorithms can be used to help robots adjust to changing environments.

Planning and Decision-Making

Robots need to be able to plan and make decisions in order to achieve their goals. Planning algorithms can be used to generate plans for robots to follow, and decision-making algorithms can be used to help robots select the best course of action.

Human-Robot Interaction

Robots need to be able to interact with humans in order to be useful. Human-robot interaction research focuses on developing new ways for robots to interact with humans, including natural language processing, speech recognition, and gesture recognition.

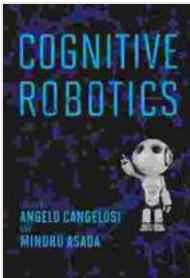
Applications of Cognitive Robotics

Cognitive robotics has a wide range of potential applications, including:

- * Healthcare: Cognitive robots can be used to assist with surgery, rehabilitation, and other healthcare tasks.
- * Manufacturing: Cognitive robots can be used to automate manufacturing processes and improve efficiency.
- * Transportation: Cognitive robots can be used to develop self-driving cars and other autonomous vehicles.
- * Space exploration: Cognitive robots can be used to explore other planets and moons.

Cognitive robotics is a rapidly growing field with the potential to revolutionize many aspects of our lives. By understanding the cognitive

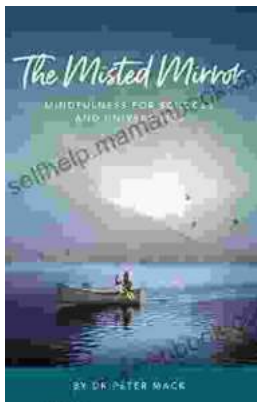
processes that underlie intelligent behavior, we can design and build robots that are more capable, more adaptable, and more human-like.



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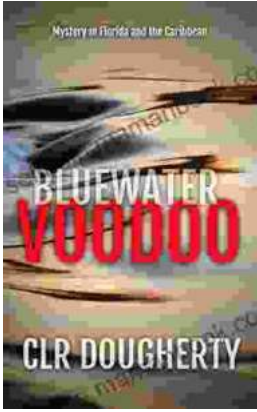
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