



## Cognitive Robotics

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The kimono-clad android robot that recently made its debut as the new greeter at the entrance of Tokyo's Mitsukoshi department store is just one example of the rapid advancements being made in the field of robotics.

Cognitive robotics is an approach to creating artificial intelligence in robots by enabling them to learn from and respond to real-world situations, as opposed to pre-programming the robot with specific responses to every conceivable stimulus.

Presenting the contributions of international experts from various disciplines within the field, **Cognitive Robotics** provides novel material and discusses advanced approaches in the field of intelligent robotics. It explains the various aspects of the topic to provide readers with a solid foundation on the subject.

This edited collection presents theoretical research in cognitive robotics. It takes a multidisciplinary approach that considers the artificial intelligence, physical, chemical, philosophical, psychological, social, cultural, and ethical aspects of this rapidly emerging field. The editor is a prominent researcher whose Lovotics research into emotional bonds with robots is widely recognized.

Supplying an accessible introduction to cognitive robotics, the book considers computational intelligence for cognitive robotics based on informationally structured space. It examines how people respond to robots and what makes robots psychologically appealing to humans.

The book contextualizes concepts in the history of studies on intelligence theories and includes case studies of different types of robots in action. Although ideal for robotics researchers and professionals, this book is also suitable for use as a supporting textbook in advanced robotics courses at both the undergraduate and graduate levels.

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