Google Drive



Consciousness and Robot Sentience: 2 (Series on Machine Consciousness)

Pentti O Haikonen

Download now

Click here if your download doesn"t start automatically

Consciousness and Robot Sentience: 2 (Series on Machine Consciousness)

Pentti O Haikonen

Consciousness and Robot Sentience: 2 (Series on Machine Consciousness) Pentti O Haikonen

Robots are becoming more human, but could they also become sentient and have human-like consciousness?

What is consciousness, exactly?

It is a fact that our thoughts and consciousness are based on the neural activity of the brain. It is also a fact that we do not perceive our brain activity as it really is — patterns of neural firings. Instead, we perceive our sensations and thoughts apparently as they are. What kind of condition would transform the neural activity into this kind of internal appearance? This is the basic problem of consciousness.

The author proposes an explanation that also provides preconditions for true conscious cognition — the requirement of a direct perceptive system with inherent sub-symbolic and symbolic information processing. Associative neural information processing with distributed signal representations is introduced as a method that satisfies these requirements.

Conscious robot cognition also calls for information integration and sensorimotor integration. This requirement is satisfied by the Haikonen Cognitive Architecture (HCA).

This book demystifies both the enigmatic philosophical issues of consciousness and the practical engineering issues of conscious robots by presenting them in an easy-to-understand manner for the benefit of students, researchers, philosophers and engineers in the field.

Contents:

- Introduction
- The Problem of Consciousness
- Consciousness and Subjective Experience
- Perception and Qualia
- From Perception to Consciousness
- Emotions and Consciousness
- Inner Speech and Consciousness
- Qualia and Machine Consciousness
- Testing Consciousness
- Artificial Conscious Cognition
- Associative Information Processing
- Neural Realization of Associative Processing
- Designing a Cognitive Perception System
- Examples of Perception/Response Feedback Loops
- The Transition to Symbolic Processing
- Information Integration with Multiple Modules
- Emotional Significance of Percepts
- The Outline of the Haikonen Cognitive Architecture (HCA)
- Mind Reading Applications

- The Comparison of Some Cognitive Architectures
- Example: An Experimental Robot with the HCA
- Concluding Notes

Readership: Enthusiasts in cognitive robot research (including not only experts but also hobbyists), as well as university students, researchers and engineers on robots and/or cognitive machines.

Download Consciousness and Robot Sentience: 2 (Series on Ma ...pdf

Read Online Consciousness and Robot Sentience: 2 (Series on ...pdf

Download and Read Free Online Consciousness and Robot Sentience: 2 (Series on Machine Consciousness) Pentti O Haikonen

---

From reader reviews:

Susan Velez:

Do you have favorite book? When you have, what is your favorite's book? Guide is very important thing for us to understand everything in the world. Each book has different aim or goal; it means that reserve has different type. Some people really feel enjoy to spend their the perfect time to read a book. They are really reading whatever they consider because their hobby is definitely reading a book. What about the person who don't like examining a book? Sometime, man or woman feel need book if they found difficult problem as well as exercise. Well, probably you will require this Consciousness and Robot Sentience: 2 (Series on Machine Consciousness).

Georgia Lopez:

Does one one of the book lovers? If yes, do you ever feeling doubt while you are in the book store? Try to pick one book that you never know the inside because don't determine book by its include may doesn't work is difficult job because you are scared that the inside maybe not since fantastic as in the outside seem likes. Maybe you answer could be Consciousness and Robot Sentience: 2 (Series on Machine Consciousness) why because the fantastic cover that make you consider concerning the content will not disappoint a person. The inside or content will be fantastic as the outside or even cover. Your reading sixth sense will directly guide you to pick up this book.

Alan Coleman:

In this era which is the greater individual or who has ability in doing something more are more valuable than other. Do you want to become certainly one of it? It is just simple strategy to have that. What you need to do is just spending your time very little but quite enough to get a look at some books. Among the books in the top collection in your reading list is definitely Consciousness and Robot Sentience: 2 (Series on Machine Consciousness). This book which is qualified as The Hungry Slopes can get you closer in turning into precious person. By looking upwards and review this publication you can get many advantages.

Rita Beatty:

Reading a publication make you to get more knowledge from this. You can take knowledge and information from a book. Book is published or printed or illustrated from each source that will filled update of news. Within this modern era like currently, many ways to get information are available for a person. From media social including newspaper, magazines, science publication, encyclopedia, reference book, novel and comic. You can add your understanding by that book. Are you ready to spend your spare time to open your book? Or just seeking the Consciousness and Robot Sentience: 2 (Series on Machine Consciousness) when you needed it?

Download and Read Online Consciousness and Robot Sentience: 2 (Series on Machine Consciousness) Pentti O Haikonen #7GSLF51AEYC

Read Consciousness and Robot Sentience: 2 (Series on Machine Consciousness) by Pentti O Haikonen for online ebook

Consciousness and Robot Sentience: 2 (Series on Machine Consciousness) by Pentti O Haikonen Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Consciousness and Robot Sentience: 2 (Series on Machine Consciousness) by Pentti O Haikonen books to read online.

Online Consciousness and Robot Sentience: 2 (Series on Machine Consciousness) by Pentti O Haikonen ebook PDF download

Consciousness and Robot Sentience: 2 (Series on Machine Consciousness) by Pentti O Haikonen Doc

Consciousness and Robot Sentience: 2 (Series on Machine Consciousness) by Pentti O Haikonen Mobipocket

Consciousness and Robot Sentience: 2 (Series on Machine Consciousness) by Pentti O Haikonen EPub