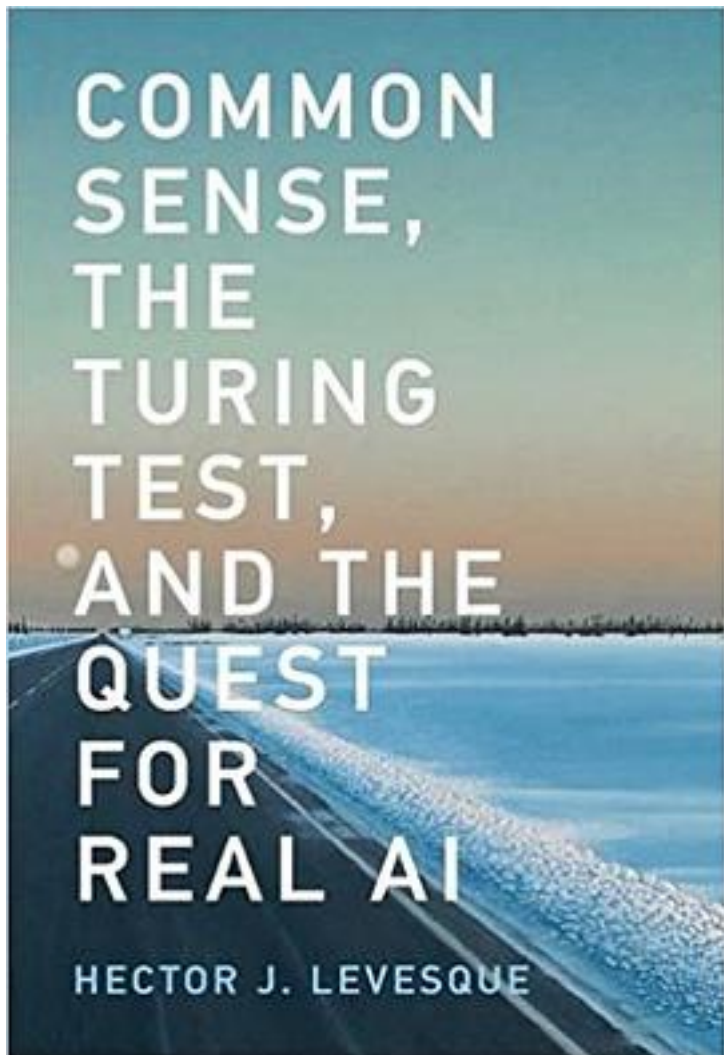


Common Sense, the Turing Test, and the Quest for Real AI



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What can artificial intelligence teach us about the mind? If AI's underlying concept is that thinking is a computational process, then how can computation illuminate thinking? It's a timely question. AI is all the rage, and the buzziest AI buzz surrounds adaptive machine learning: computer systems that learn intelligent behavior from massive amounts of data. This is what powers a driverless car, for example. In this book, Hector Levesque shifts the conversation to "good old fashioned artificial intelligence," which is based not on heaps of data but on understanding commonsense intelligence. This kind of artificial intelligence is equipped to handle situations that depart from previous patterns -- as we do in real life, when, for example, we encounter a washed-out bridge or when the barista informs us there's no more soy milk.

Levesque considers the role of language in learning. He argues that a computer program that passes the famous Turing Test could be a mindless zombie, and he proposes another way to test for intelligence -- the Winograd Schema Test, developed by Levesque and his colleagues. "If our goal is to understand intelligent behavior, we had better understand the difference between making it and faking it," he observes. He identifies a possible mechanism behind common sense and the capacity to call on background knowledge: the ability to represent objects of thought symbolically. As AI migrates more and more into everyday life, we should worry if systems without common sense are making decisions where common sense is needed.

作者介绍:

Review

AI today is exhibiting astounding technology and having a profound impact, but much of the intellectual motivation that gave rise to the field has fallen by the wayside. There are two reasons to re-embrace the intellectual journey. One is that the progress of AI will be impeded otherwise. The other is that the journey is worthy in and of itself -- it is a quest to understand not only computers but ourselves. This extremely well-written book by a leading AI researcher is required reading for anyone interested in this journey. (Yoav Shoham, Professor Emeritus, Stanford University; Principal Scientist, Google) AI is currently dominated by work on machine learning from massive data sets and/or low-level sensory inputs. Levesque reminds us that such an account of intelligence neglects the most important distinguishing feature of human intelligence: our ability to learn about aspects of the world that lie far beyond our direct experience through just a brief exchange of natural language. (Henry Kautz, Robin & Tim Wentworth Director, Goergen Institute for Data Science, University of Rochester) As a leading AI researcher for several decades, Levesque provides a lucid and highly insightful account of the remaining research challenges facing AI, arguing persuasively that common sense reasoning remains an open problem and lies at the core of the versatility of human intelligence. (Bart Selman, Professor of Computer Science, Cornell University)

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About the Author

Hector J. Levesque is Professor Emeritus in the Department of Computer Science at the University of Toronto. He is the author of *Common Sense*, *the Turing Test*, and *the*

Quest for Real AI, coauthor (with Gerhard Lakemeyer) of The Logic of Knowledge Bases, and coeditor (with Ronald J. Brachman) of Knowledge Representation and Reasoning, all three published by the MIT Press.

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评论

Research on mind from AI designers' perspective. The aim for managing. Very unusual to neuroscientists and epistemologists approach to mind.

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书评

从工厂的机器工人到无人驾驶汽车，再到阿尔法狗战胜世界第一象棋手，我们似乎已经身处高新技术所营造的美丽新世界，以至于谈论人工智能，远非只是时髦，更是一种政治正确，它被目为国家安全与民族复兴的发展方向。然而，另一方面，我们也能够听见相反的声音，部分人士对技术表...

人工智能的书籍千百种，从各个角度来研究的都不尽相同，而这本书旨在从人工智能的角度探讨人类的心智。很难理解，这就好像偶像剧里的数学大神，用那些我们搞不懂的算式在噼里啪啦算着爱情的公式一样，让人叹为观止，可是~~宝宝看不懂啊！所以我首先要明白的是，为什么作者要把...

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