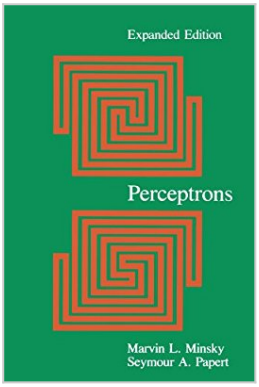

Perceptrons: An Introduction to Computational Geometry, Expanded Edition

By Marvin Minsky, Seymour A. Papert

Perceptrons: An Introduction to Computational Geometry, Expanded Edition By Marvin Minsky, Seymour A. Papert

Perceptrons -- the first systematic study of parallelism in computation -- has remained a classical work on threshold automata networks for nearly two decades. It marked a historical turn in artificial intelligence, and it is required reading for anyone who wants to understand the connectionist counterrevolution that is going on today.

Artificial-intelligence research, which for a time concentrated on the programming of Von Neumann computers, is swinging back to the idea that intelligence might emerge from the activity of networks of neuronlike entities. Minsky and Papert's book was the first example of a mathematical analysis carried far enough to show the exact limitations of a class of computing machines that could seriously be considered as models of the brain. Now the new developments in mathematical tools, the recent interest of physicists in the theory of disordered matter, the new insights into and psychological models of how the brain works, and the evolution of fast computers that can simulate networks of automata have given *Perceptrons* new importance.

Witnessing the swing of the intellectual pendulum, Minsky and Papert have added a new chapter in which they discuss the current state of parallel computers, review developments since the appearance of the 1972 edition, and identify new research directions related to connectionism. They note a central theoretical challenge facing connectionism: the challenge to reach a deeper understanding of how "objects" or "agents" with individuality can emerge in a network. Progress in this area would link connectionism with what the authors have called "society theories of mind."

Perceptrons: An Introduction to Computational Geometry, Expanded Edition

By Marvin Minsky, Seymour A. Papert

Perceptrons: An Introduction to Computational Geometry, Expanded Edition By Marvin Minsky, Seymour A. Papert

Perceptrons -- the first systematic study of parallelism in computation -- has remained a classical work on threshold automata networks for nearly two decades. It marked a historical turn in artificial intelligence, and it is required reading for anyone who wants to understand the connectionist counterrevolution that is going on today.

Artificial-intelligence research, which for a time concentrated on the programming of Von Neumann computers, is swinging back to the idea that intelligence might emerge from the activity of networks of neuronlike entities. Minsky and Papert's book was the first example of a mathematical analysis carried far enough to show the exact limitations of a class of computing machines that could seriously be considered as models of the brain. Now the new developments in mathematical tools, the recent interest of physicists in the theory of disordered matter, the new insights into and psychological models of how the brain works, and the evolution of fast computers that can simulate networks of automata have given *Perceptrons* new importance.

Witnessing the swing of the intellectual pendulum, Minsky and Papert have added a new chapter in which they discuss the current state of parallel computers, review developments since the appearance of the 1972 edition, and identify new research directions related to connectionism. They note a central theoretical challenge facing connectionism: the challenge to reach a deeper understanding of how "objects" or "agents" with individuality can emerge in a network. Progress in this area would link connectionism with what the authors have called "society theories of mind."

Perceptrons: An Introduction to Computational Geometry, Expanded Edition By Marvin Minsky, Seymour A. Papert Bibliography

- Sales Rank: #726414 in Books
- Published on: 1987-12-28
- Original language: English
- Number of items: 1
- Dimensions: 8.90" h x .80" w x 6.00" l, .92 pounds
- Binding: Paperback
- 308 pages

Editorial Review

About the Author
The late Marvin L. Minsky was Donner Professor of Science in MIT's Electrical Engineering and Computer Science Department.

The late Seymour A. Papert was a Professor in MIT's AI Lab (1960--1980s) and MIT's Media Lab (1985--2000) and the author of *Mindstorms: Children, Computers, and Powerful Ideas*.

Users Review

From reader reviews:

Richard Brassell:

The experience that you get from Perceptrons: An Introduction to Computational Geometry, Expanded Edition may be the more deep you digging the information that hide inside words the more you get thinking about reading it. It doesn't mean that this book is hard to be aware of but Perceptrons: An Introduction to Computational Geometry, Expanded Edition giving you excitement feeling of reading. The article writer conveys their point in selected way that can be understood simply by anyone who read the idea because the author of this reserve is well-known enough. That book also makes your own personal vocabulary increase well. It is therefore easy to understand then can go along with you, both in printed or e-book style are available. We recommend you for having this kind of Perceptrons: An Introduction to Computational Geometry, Expanded Edition instantly.

Teresa Burns:

The e-book untitled Perceptrons: An Introduction to Computational Geometry, Expanded Edition is the publication that recommended to you to see. You can see the quality of the reserve content that will be shown to an individual. The language that creator use to explained their ideas are easily to understand. The article writer was did a lot of study when write the book, so the information that they share for your requirements is absolutely accurate. You also might get the e-book of Perceptrons: An Introduction to Computational Geometry, Expanded Edition from the publisher to make you a lot more enjoy free time.

Tanya McNeil:

A lot of people always spent their particular free time to vacation or maybe go to the outside with them household or their friend. Were you aware? Many a lot of people spent that they free time just watching TV, or maybe playing video games all day long. If you want to try to find a new activity that is look different you can read a new book. It is really fun to suit your needs. If you enjoy the book that you just read you can spent all day long to reading a reserve. The book Perceptrons: An Introduction to Computational Geometry, Expanded Edition it is very good to read. There are a lot of people who recommended this book. These were enjoying reading this book. In the event you did not have enough space to develop this book you can buy the

actual e-book. You can m0ore easily to read this book through your smart phone. The price is not too costly but this book offers high quality.

Nila Cobb:

This Perceptrons: An Introduction to Computational Geometry, Expanded Edition is new way for you who has intense curiosity to look for some information given it relief your hunger info. Getting deeper you on it getting knowledge more you know or perhaps you who still having tiny amount of digest in reading this Perceptrons: An Introduction to Computational Geometry, Expanded Edition can be the light food to suit your needs because the information inside that book is easy to get simply by anyone. These books create itself in the form and that is reachable by anyone, sure I mean in the e-book form. People who think that in book form make them feel tired even dizzy this guide is the answer. So there is absolutely no in reading a publication especially this one. You can find actually looking for. It should be here for an individual. So , don't miss it! Just read this e-book variety for your better life along with knowledge.

Read Perceptrons: An Introduction to Computational Geometry, Expanded Edition By Marvin Minsky, Seymour A. Papert for online ebook

Perceptrons: An Introduction to Computational Geometry, Expanded Edition By Marvin Minsky, Seymour A. Papert 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 Perceptrons: An Introduction to Computational Geometry, Expanded Edition By Marvin Minsky, Seymour A. Papert books to read online.

Online Perceptrons: An Introduction to Computational Geometry, Expanded Edition By Marvin Minsky, Seymour A. Papert ebook PDF download

Perceptrons: An Introduction to Computational Geometry, Expanded Edition By Marvin Minsky, Seymour A. Papert Doc

Perceptrons: An Introduction to Computational Geometry, Expanded Edition By Marvin Minsky, Seymour A. Papert Mobipocket

Perceptrons: An Introduction to Computational Geometry, Expanded Edition By Marvin Minsky, Seymour A. Papert EPub

VA86KCBUQFX: Perceptrons: An Introduction to Computational Geometry, Expanded Edition By Marvin Minsky, Seymour A. Papert