Spiking Neuron Models: Single Neurons, Populations, Plasticity

Wulfram Gerstner, Werner M. Kistler

Spiking Neuron Models: Single Neurons, Populations, Plasticity

Wulfram Gerstner, Werner M. Kistler

Spiking Neuron Models: Single Neurons, Populations, Plasticity Wulfram Gerstner, Werner M. Kistler Neurons in the brain communicate by short electrical pulses, the so-called action potentials or spikes. How can we understand the process of spike generation? How can we understand information transmission by neurons? What happens if thousands of neurons are coupled together in a seemingly random network? How does the network connectivity determine the activity patterns? And, vice versa, how does the spike activity influence the connectivity pattern? These questions are addressed in this 2002 introduction to spiking neurons aimed at those taking courses in computational neuroscience, theoretical biology, biophysics, or neural networks. The approach will suit students of physics, mathematics, or computer science; it will also be useful for biologists who are interested in mathematical modelling. The text is enhanced by many worked examples and illustrations. There are no mathematical prerequisites beyond what the audience would meet as undergraduates: more advanced techniques are introduced in an elementary, concrete fashion when needed.

Download and Read Free Online Spiking Neuron Models: Single Neurons, Populations, Plasticity Wulfram Gerstner, Werner M. Kistler

---

From reader reviews:

Mary Ybarra:

Do you have favorite book? For those who have, what is your favorite's book? Book is very important thing for us to know everything in the world. Each book has different aim or perhaps goal; it means that guide has different type. Some people truly feel enjoy to spend their a chance to read a book. They can be reading whatever they acquire because their hobby is definitely reading a book. Consider the person who don't like reading through a book? Sometime, man or woman feel need book once they found difficult problem or even exercise. Well, probably you will need this Spiking Neuron Models: Single Neurons, Populations, Plasticity.

Vera Forde:

Have you spare time for any day? What do you do when you have considerably more or little spare time? Sure, you can choose the suitable activity for spend your time. Any person spent their own spare time to take a walk, shopping, or went to the particular Mall. How about open as well as read a book eligible Spiking Neuron Models: Single Neurons, Populations, Plasticity? Maybe it is for being best activity for you. You understand beside you can spend your time together with your favorite's book, you can cleverer than before. Do you agree with it has the opinion or you have additional opinion?

Anna Williams:

Book is to be different per grade. Book for children until adult are different content. As we know that book is very important normally. The book Spiking Neuron Models: Single Neurons, Populations, Plasticity was making you to know about other information and of course you can take more information. It is rather advantages for you. The guide Spiking Neuron Models: Single Neurons, Populations, Plasticity is not only giving you far more new information but also for being your friend when you sense bored. You can spend your personal spend time to read your reserve. Try to make relationship with the book Spiking Neuron Models: Single Neurons, Populations, Plasticity. You never feel lose out for everything when you read some books.

Dolores Mann:

A lot of guide has printed but it is different. You can get it by net on social media. You can choose the top book for you, science, amusing, novel, or whatever by searching from it. It is named of book Spiking Neuron Models: Single Neurons, Populations, Plasticity. Contain your knowledge by it. Without departing the printed book, it could add your knowledge and make an individual happier to read. It is most significant that, you must aware about guide. It can bring you from one place to other place.

Read Spiking Neuron Models: Single Neurons, Populations, Plasticity by Wulfram Gerstner, Werner M. Kistler for online ebook

Spiking Neuron Models: Single Neurons, Populations, Plasticity by Wulfram Gerstner, Werner M. Kistler 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 Spiking Neuron Models: Single Neurons, Populations, Plasticity by Wulfram Gerstner, Werner M. Kistler books to read online.

Online Spiking Neuron Models: Single Neurons, Populations, Plasticity by Wulfram Gerstner, Werner M. Kistler ebook PDF download

Spiking Neuron Models: Single Neurons, Populations, Plasticity by Wulfram Gerstner, Werner M. Kistler Doc

Spiking Neuron Models: Single Neurons, Populations, Plasticity by Wulfram Gerstner, Werner M. Kistler Mobipocket

Spiking Neuron Models: Single Neurons, Populations, Plasticity by Wulfram Gerstner, Werner M. Kistler EPub