

Simulating Neural Networks With Mathematica

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Introduces the operations and application of neural networks in the context of Mathematica's programming language. Shows professionals and students how to use Mathematica to simulate neural network operations and to assess neural network behavior and performance. The electronic supplement provides the source code for the programs in the book. Contents

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Neural Networks is a Mathematica package designed to train, visualize, and validate neural network models. A neural network model is a structure that can be adjusted to produce a mapping from a given set of data to features of or relationships among the data. The model is adjusted, or trained, using a collection of data from

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~~¶~~lesobrod those features are for neural networks. Kauffman networks are not neural networks in the usual sense, so they do not really apply here. There are no inputs for example except the initial state, no weights, and no training process e.g back-propagation. ~~¶~~ flinty Aug 5 at 13:31

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It does exactly as it describes...shows the reader how to use mathematica to simulate several types of Neural Networks. The code is clear, fairly short and the example networks fun to work though. The flexibility of Mathematica made it a simple task to view what the networks were doing and thus made the networks easier to understand.

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