

Programming Neural Networks with Encog3 in C#, 2nd Edition

By Jeff Heaton


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Encog is an advanced Machine Learning Framework for Java, C# and Silverlight. This book focuses on using the neural network capabilities of Encog with the C# programming language. This book begins with an introduction to the kinds of tasks neural networks are suited towards. The reader is shown how to use classification, regression and clustering to gain new insights into data. Neural network architectures such as feedforward, self organizing maps, NEAT, and recurrent neural networks are introduced. This book also covers advanced neural network training techniques such as back propagation, quick propagation, resilient propagation, Levenberg Marquardt, genetic training and simulated annealing. Real world problems such as financial prediction, classification and image processing are introduced.

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Programming Neural Networks with Encog3 in C#, 2nd Edition By Jeff Heaton Bibliography

- Sales Rank: #1888210 in Books
- Published on: 2011-10-31
- Original language: English
- Number of items: 1
- Dimensions: 9.25" h x .55" w x 7.50" l, .92 pounds
- Binding: Paperback
- 240 pages

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Editorial Review

About the Author

Jeff Heaton is an author, consultant, artificial intelligence (AI) researcher and former college instructor. Heaton has penned more than a dozen books on topics including AI, virtual worlds, spiders and bots. Heaton leads the Encog project, an open source initiative to provide an advanced neural network and bot framework for Java and C#. A Sun Certified Java Programmer and a Senior Member of the IEEE, he holds a Masters Degree in Information Management from Washington University in St. Louis. Heaton lives in St. Louis, Missouri.

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