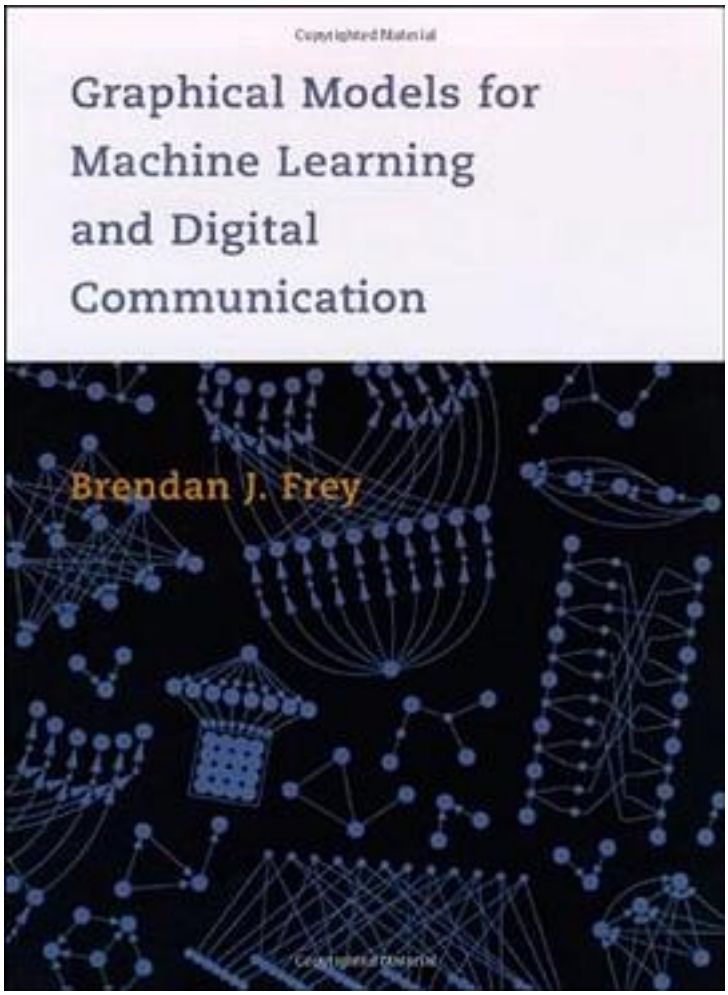
Graphical Models for Machine Learning and Digital Communication



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著者:Brednan Jf Frey

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A variety of problems in machine learning and digital communication deal with complex but structured natural or artificial systems. In this book, Brendan Frey uses graphical models as an overarching framework to describe and solve problems of pattern classification, unsupervised learning, data compression, and channel coding. Using probabilistic structures such as Bayesian belief networks and Markov random fields, he is able to describe the relationships between random variables in these systems and to apply graph-based inference techniques to develop new algorithms. Among the algorithms described are the wake-sleep algorithm for unsupervised learning, the iterative turbodecoding algorithm (currently the best error-correcting decoding algorithm), the bits-back coding method, the Markov chain Monte Carlo technique, and variational inference.

作者介绍:

Brendan J. Frey Professor

Electrical and Computer Engineering

University of Toronto

目录:

标签

机器学习

概率模型

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评论

呃，觉得就是了解个框架吧。讲的都不详细。尤其关于digital的举例非常不适应，看起来比较愣。

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书评

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