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text/reference provides  
a general introduction  
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graphical models  
(PGMs) from an  
engineering  
perspective. The book  
covers the  
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Learn important  
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languages for  
representing complex  
domains and how the  
graphic models extend



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Use ideas from discrete data structures in computer science to efficiently encode and manipulate probability distributions over high-dimensional spaces.

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random variables, and  
edges as statistical  
dependencies between  
them. Sometimes all of  
those variables may be  
...

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Friedman. p. cm. -

(Adaptive computation  
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1. Graphical modeling  
(Statistics) 2. Bayesian

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Graphical models bring together graph theory and probability theory, and provide a flexible framework for modeling large collections of random variables with complex interactions. This

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course will provide a comprehensive survey of the topic, introducing the key formalisms and main techniques used to

construct them, make predictions, and support decision-making under uncertainty.

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A graphical model is a probabilistic model,

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where the conditional dependencies between the random variables are specified via a graph. Graphical models provide a flexible framework for modeling large collections of variables with

**Probabilistic  
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Spring 2013**

Course Description:  
Probabilistic graphical models are a powerful

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framework for  
representing complex  
domains using  
probability  
distributions, with  
numerous applications  
in machine learning,  
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natural language  
processing and  
computational biology.

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Probabilistic graphical  
models are capable of



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representing a large number of natural and human-made systems; that is why the types and representation capabilities of the

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decipher sound,  
recognize images and  
drive cars.

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A graphical model is a probabilistic model, where the conditional dependencies between the random variables is specified via a graph. Graphical models provide a flexible framework for

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modeling large  
collections of variables  
with  
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A structural causal model is made of endogenous (manifest) and exogenous (latent) variables. We show that endogenous observations induce linear constraints on the probabilities of the exogenous variables.

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This allows to exactly map a causal model into a credal network. Causal inferences, such as interventions and counterfactuals, can consequently be obtained by standard algorithms for the ...

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distributions over  
complex domains: joint  
(multivariate)  
distributions over large  
numbers of random  
variables that interact  
with each other.

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