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Graphical Models

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1. Introduction

The fields of Statistics and Computer Science have generally followed separate paths for the past several decades, which each field providing useful services to the other, but with the core concerns of the two fields rarely appearing to intersect. In recent years, however, it has become increasingly evident that the long-term goals of the two fields are closely aligned. Statisticians are increasingly econcerned with the computational aspects, both theoretical and practical, of models and inference procedures. Computer scientists are increasingly concerned with systems that interact with the external world and interpret uncertain data in terms of underlying probabilistic models. One area in which these trends are most evident is that of probabilistic graphical models.

A graphical model is a family of probability distributions defined in terms of a directed or directed graph. The nodes in the graph are identified with random variables, and joint probability distributions are defined by taking products over functions defined on connected subsets of nodes. By exploiting the graph-theoretic representation, the formalism provides general algorithms for computing marginal and conditional probabilities of interest. Moreover, the formalism provides control over the computational complexity associated with these operations.

The graphical model formalism is agnostic to the distinction between frequentist and Bayesian statistics. However, by providing general machinery for manipulating joint probability distributions, and in particular by making hierarchical latent variable models easy to represent and manipulate, the formalism has proved to be particularly popular within the Bayesian paradigm. Viewing Bayesian statistics as the systematic application of probability theory to statistics, and viewing graphical models as a systematic application of graph-theoretic algorithms to probability theory, it should not be surprising that many authors have viewed graphical models as a general Bayesian "inference engine" (Coxell et al., 1999).

What is perhaps most distinctive about the graphical model approach is its naturalness in formulating probabilistic models of complex phenomena in applied fields, while maintaining control over the computational cost associated with these models. Accordingly, in this article our principal focus is on the presentation of graphical models that have proved useful in applied domains, and on ways in which the formalism encourages the exploration of extensions of classical methods. Before turning to these examples, however, we begin with an overview of basic concepts.

2. Representation

The two most common forms of graphical model are directed graphical models and undirected graphical models, based on directed acquire graphs and undirected graphs, respectively.

Let us begin with the directed case. Let $G(V, \mathcal{E})$ be a directed acyclic graph, where V are the nodes and \mathcal{E} are the edges of the graph. Let $\{X_v : v \in V\}$ be a collection of random variables indexed by the nodes of the graph. To each node $v \in V$, let v_v denote the subset of indices of its parents. We allow sets of indices to appear wherever a v_v single index appears, thus X_{v_v} denotes the vector of random variables indexed by the parents of v_v . Given a collection of kernels, $\{k(x_v | x_{v_v}) : v \in V\}$, that sum (in the discrete case) or integrate (in the continuous case) to one (with respect to v_v),

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