

mixtures of polya trees pdf

More Aspects of Polya Tree Distributions for Statistical Modelling Lavine, Michael, The Annals of Statistics, 1994
Some Remarks on Openly Generated Boolean Algebras Fuchino, Sakae, Journal of Symbolic Logic, 1994

Müller, Rodriguez: Chapter 4: Polya Trees - Project Euclid

Mixtures of Polya trees priors for the baseline survival function We consider models (1), (2) and (3) with a mixture of Polya trees prior on S_0 , which smoothes over partitioning effects associated with a simple Polya tree, and includes the underlying centring parametric families as special cases.

Mixtures of Polya trees for flexible spatial frailty

Mixtures of Polya trees offer a very flexible nonparametric approach for modelling time-to-event data. Many such settings also feature spatial association that requires further sophistication, either at the point level or at the lattice level.

Mixtures of Polya trees for flexible spatial frailty

Mixtures of Polya Trees for Flexible Spatial Frailty Survival Modeling Abstract Mixtures of Polya trees offer a very flexible, nonparametric approach for modeling time-

Mixtures of Polya Trees for Flexible Spatial Frailty

Multivariate mixtures of Polya trees for modeling ROC data Timothy E Hanson Timothy E Hanson is at Division of Biostatistics, University of Minnesota, US.

Multivariate mixtures of Polya trees for modeling ROC

2. A NOVEL MIXTURE OF MULTIVARIATE POLYA TREES 2.1 MULTIVARIATE POLYA TREES Paddock (1999, 2002) and Hanson (2006) generalized univariate PT priors to multivariate settings.

Robustifying Generalized Linear Mixed Models Using a New

(2009), and consider a mixture of finite Polya trees, see also Hanson (2006) and Christensen et al. (2008). Essentially, the base (or centering) distribution of the Polya tree is assumed to belong to a parametric family, instead of being fixed, and a mixing distribution is selected.

Inference on Archimedean copulas using mixtures of Polya trees

Polya trees have an advantage that for some sampling situations where the posterior turn out to be a mixtures of Dirichlet processes, Polya trees lead just to a single Polya tree.

Polya Tree - apps.stat.vt.edu

Robustifying Generalized Linear Mixed Models Using a New Class of Mixtures of Multivariate Polya Trees Article (PDF Available) in Journal of Computational and Graphical Statistics 18(4):838-860 ...

Robustifying Generalized Linear Mixed Models Using a New

a diffuse, finite Polya tree prior. Although not a generalization of an existing parametric family, this model allows for multimodality and skewness and holds promise for survival analysis. Statistical modeling using Polya trees has seen only limited application since being introduced several decades ago (Freedman 1963; Fabius 1964; Ferguson 1974).

Modeling Regression Error With a Mixture of Polya Trees

a mixture of Polya trees that enter into the model in an arbitrary manner. This approach circumvents the need to "sample" latent data, for example, in survival models with censored data (Sec. 5.3) or in the latent data approach to fitting binary regression models (Sec. 5.1). Polya trees are easily constrained to have median 0, a fixed

Inference for Mixtures of Finite Polya Tree Models

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Modeling Regression Error with a Mixture of Polya Trees

dependency of Polya trees on the partition include mixing the base measure used to define the tree [11, 14, 15], random perturbation of the dividing boundary in the partition of intervals [19] and the use of positively correlated variables for the conditional probabilities at each level of the tree definition (Nieto-Barajas and Müller [18]).

Optional Polya tree and Bayesian inference

Mixtures of Polya trees: MPT considered by Lavine (1992), Berger and Guglielmi (2001), Hanson and Johnson (2002), Hanson (2006), & some others. MPT can smooth out partitioning effects of PT. MCMC can be straightforward to set up based on underlying parametric model, but mixing is poor if underlying model grossly incorrect.

Bayesian Semiparametric Modeling Based on Mixtures of

This sensitivity can be ameliorated by mixing Polya trees (Hanson and Johnson 2002), but at the expense of more difficult computation. Our focus is on developing a new approach for Bayesian multiscale density estimation, which inherits many of the advantages of Dirichlet process mixtures while avoiding the key disadvantages of Polya trees.

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