Biomedical applications of Bayesian Semiparametric models

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In a general sense, a semiparametric Bayesian model is a probability model that involves specification of a probability distribution. Instead of using a parametric specification, the semiparametric Bayesian approach treats this distribution as a stochastic unobservable following a prior process. One choice for such a prior process is the Dirichlet process which has attractive theoretical and computational properties.

I consider semiparametric models for data on various directions.