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*Statistical Inference for Point Processes Associated with a Dirichlet Process*

We consider events of a spatio-temporal point process which intensity is associated with a hidden process. Both of the following situations are studied. Firstly, the data consist of maps of new occurrence spatial positions between two consecutive observation dates. Secondly, we have count data in spatial units from a systematic random sampling. MCMC techniques are developed for statistical inference on a Cox process partially directed by a Dirichlet process.