

Markov Chain Monte Carlo simulation methods

par Christian P. Robert

Abstract

In this short introduction to MCMC methods, we will justify the necessity for using these more advanced simulation tools based on realistic case studies like hierarchical modelling and latent classes. The course will briefly cover the theoretical justifications of the methods and rather focus on the implementation details and difficulties. Openings on more advanced topics like perfect sampling, reversible jump and adaptive MCMC will be only mentioned.