Ledure 8

14/2 Week 7.2

MCMC: Metropolis-Itastings and Gibber

Note (MCMC for continuous distributions):

Instead of P(ylx), we will write $\rho(\Theta, \phi) = \begin{cases} 2(\Theta, \phi) \propto (\Theta, \phi), & \Theta \neq \emptyset, \\ |-\int_{-\infty}^{\infty} 2(\Theta, \phi) \propto (\Theta, \phi) & J\phi, & \Theta = \phi. \end{cases}$

Fa ACS $P(0,A) = \int_{A} Q(0, \emptyset) \sim (0, \emptyset) d\emptyset +$ $I\{O \in A\}[I-(g(O, p) \sim (O, p) d p]$ $\sim (0, \emptyset) = \min \left\{ \left(\frac{\pi(\emptyset) q(\emptyset, \emptyset)}{\pi(\emptyset) q(\emptyset, \emptyset)} \right) \right\}$

Gibbs Sampling (acceptance rate =1):

$$Q(y^{j}|x_{i-1}^{j}, x_{i-1}^{-j}) = \Pi(y^{j}|x_{i-1}^{-j})$$

$$= \min \left\{ \prod_{i=1}^{j} \prod_{i=1$$