Probability Distributions M. Henry Linder

Poisson Distribution

The Poisson distribution is defined for x = 0, 1, 2, ...

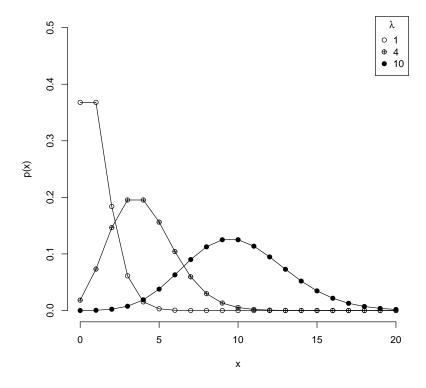


Figure 1: Poisson Distribution for Various λ

$$x = 0, 1, 2, \dots$$

$$0 < \lambda < \infty$$

$$p(x) = \frac{e^{-\lambda} \lambda^x}{x!}$$

$$\mu = E[X] = \lambda$$

$$\sigma^2 = E[(x - \mu)^2] = \lambda$$