Ejpidemic models of Flu outbreaks

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Likelihood

$$L = p(D|\theta, I) = \prod_{i=1}^{N} p(y_k|\Theta, I) = \tag{1}$$

assuming gaussian errors

$$p(y_k|\Theta, I) = \frac{1}{\sqrt{2\pi}\sigma} \exp -\frac{1}{2\sigma^2}[y_k - F(x_k)] \tag{2}$$

where $F(x_k)$is the number of infected people at time x_k predicted by the model and y_k is the observed data