

# MVG - Parameter Estimation

$$f(\theta) = \frac{\theta}{\theta+1} \quad \} \rightarrow \text{estimate?}$$

↓  
what's seen?

$$P(x|\theta) = g(x - f(\theta))$$

↳ some probability distribution modelling error

↓  
we assume some model which is parametrized on " $\theta$ "

maximum likelihood function

↓  
try to estimate that  $\theta$  based on observations

$$\hat{\theta}_{ML} = \arg \max_{\theta} P(x|\theta) \quad \} \text{that } \theta \text{ which maximizes probability distribution}$$

↓ in the example  
it is equivalent to back projecting and comparing