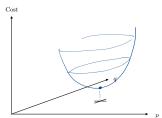




Model order estimation

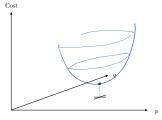


In the case of an ARMA(p,q) process, the number of unknowns is $\ell=p+q.$ For instance, AIC will then be

$$\mathrm{AIC}(p,q) = N \ln \hat{\sigma}_{e,p,q}^2 + 2(p+q)$$



Model order estimation



Important to note:

- \bullet Model order estimation is difficult, especially when N is small.
- There is no reliable algorithm. Treat all estimates with scepticism.
- At best, these algorithm can give you a feel for an appropriate order, at worst, they may indicate something completely wrong.
- Do not rely on your model order estimate!

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