Maximum Likelihard Estimator

Likelihard Functions

Single:
$$P(Z|Q) = \prod_{k \ge 1} G_k^{2k}$$
 Dataset: $P(Q|Q) = \prod_{k \ge 1} G_k^{2k}$

Lug - Libelihard

Lug $P(Q|Q) = \sum_{k \ge 1} \sum_{k \ge 1} Z_{nk} |_{Uy} \theta_k = \sum_{k \ge 1} N_k |_{Uy} \theta_k = \sum_{k \ge 1} N_k |_{Uy} \theta_k = \sum_{k \ge 1} N_k |_{Uy} \theta_k$

Optimization with Constraint

Constraint:
$$\sum_{k \geq 1} O_k \leq 1$$

$$\sum_{k \geq 1} N_k \log O_k + \lambda \left(1 - \sum_{k \geq 1} O_k\right)$$

Vsc Constraint: & Unil

Nh = S Znh

Marinum A Posterior Estrutur

Posterior Distribution

p(0|0, a) a P(0|0) p (0|a)

a [II O N.]. [II O a.]

= SI O ...

Luy Posterior

Luy P(0|0, a) 2 E. (No 1 d. a.) hay On + lands

Optimization with constraint

Layruny, in $C = \sum_{k \in I} (N_k + d_k - 1) \log Q_{k,3} \times (1 - \sum_{k \geq 1} Q_k)$

Damper: Nr. 400 - Y= D

Vs'my Construct h No Fdn -1) = No S dh - K

Special Loss Com 1: Uniform Pron (dual for all b) Brus Wr Brus MAP rulmus IN ML Cur 2: Crum du >1 Ar Wh : Nr (Gre)