Binzy doire tasks Lo discrimination {s_, s+} Yes/no +25 kg ZAFC tzsks P(26/5+) $LPR = d = hP(s=s_{+}|x)$

MAP =
$$\frac{1}{5} - \frac{1}{6} \ln P(S_{+})$$

P(S_{-})

Criterion

Response distribution

P($\hat{S} = S_{+} | S = S_{+}) = M = P(\hat{S} + \hat{S} + \hat$

decision rule in 2 spèce:

report s, when x> Knop

criterion shift

(3) Response distribution $P(\hat{S} = S_4 | S = S_4) = M = P(0 > 0 | S = S_4)$ P(s=s+ 15=s)====P(d>0|s=s)

$$S = \frac{1}{k_{MAP}} \frac{1}{s_{+}} \times \frac{1}{k_{MAP}} \times \frac{1}{s_{-}} \times \frac{1}{k_{MAP}} \times \frac{1}{s_{-}} \times \frac{1}{k_{MAP}} \times \frac{1}{s_{-}} \times \frac{1}$$

 $\frac{1}{2} = \ln \frac{P(s_{+})}{P(s_{-})} + \frac{\Delta s}{6^{2}} (2, \overline{s})$

$$P(\hat{s}=s_{+}|s=s_{+}) = P(d>o|s=s_{+}) = P(a>k_{np}|B=s_{+})$$

$$Neine going to use a generic criterion K, which may be very not be = k_{np}$$

$$= P(x>k|s=s_{+})$$

$$= P$$

$$P(x > x_{nep}|s = s_{+}) = P(\hat{s} : s_{+}|s = s_{+})$$

$$= \frac{1}{P}(\frac{s_{+}}{s} - \frac{1}{6}[\bar{s} - \frac{8^{2}}{6s} \ln p(s_{+})]) \left[\bar{s}_{z} \cdot \frac{s_{+}+s_{+}}{2} \right]$$

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 $P\left(S=S_{+}\right)S=0 = \underbrace{\delta}_{=\delta}\left(-\frac{S_{+}}{2\delta} + \frac{\delta}{S_{+}}\ln \underbrace{P\left(S=S\right)}_{P\left(S=0\right)}\right)$

 $J = \ln \frac{P(S_+)}{P(S=0)} + \frac{S_+}{6^2} \left(\varkappa - \frac{S_+}{Z} \right)$

discrimination-Confidence valing: 25 h subject flow, nosium, High nepron low now nexth; High (p(613+) long post retio d

H(K) = P(d>K15=S+) t(K) = P(d>K | S=S_) Receive operting Christe vistic -> Signal detection theory

Binary classification task. Psychometric curve -> 2 Summay of human (or animal) behavior that is plotted against 2 veriable antholled by the experiments. (1) henovotice nodel (c) $p(c=0) = p(c=1) = \frac{1}{2}$ · Class- conditional stimulus distr. p(slc)/ p(x,s,c) = p(c) p(s1c) p(x15)

() margina hitz tion. P(a)= & p(a, b) P(2, b) P(x1c) = & p(x, s1c) = = \(\text{P(x/s,c)} \text{ p(sic)} = = 2 p(x(s)p(s(c)

2->c : p(c/x)

S is continuous

P(x1c) = [ds P(x1s) P(s1c)

