PS4

O2 if $V = fav: \alpha \in \mathbb{R}^3$ Usunit length

When $f_u(x) = \underset{v \in V}{\operatorname{argmin}} \|s_i - v\|^2$ Thow argmin $\int_{v=1}^{\infty} \|x^{(i)} - f_v(x^{(i)})\|_2^2$ Where $\int_{v=1}^{\infty} \|x^{(i)} - f_v(x^{(i)})\|_2^2$ (UX-K) (UX-K) (UX-X) - (au) + (au) (au) = x7x1 - 221.xv + (2v) + (du) fu(x) = (xTu) u $= \underset{(i=1)}{\text{arg min}} \stackrel{(i=1)}{\overset{(i=$ U: UT = 1

SERO Source data scerod observed data 0 43 min motion X ERRX 1 Sy = W,TX $\frac{\partial}{\partial x} \left[\frac{\partial}{\partial y} \left[\frac{\partial}{\partial y} \right] \right] = \frac{\partial}{\partial y} \left[\frac{\partial}{\partial y} \left[\frac{\partial}{\partial y} \right] \right] + \frac{\partial}{\partial y} \left[\frac{\partial}{\partial y} \left[\frac{\partial}{\partial y} \right] \right] + \frac{\partial}{\partial y} \left[\frac{\partial}{\partial y} \left[\frac{\partial}{\partial y} \right] \right] + \frac{\partial}{\partial y} \left[\frac{\partial}{\partial y} \left[\frac{\partial}{\partial y} \right] \right] + \frac{\partial}{\partial y} \left[\frac{\partial}{\partial y} \left[\frac{\partial}{\partial y} \right] \right] + \frac{\partial}{\partial y} \left[\frac{\partial}{\partial y} \left[\frac{\partial}{\partial y} \right] \right] + \frac{\partial}{\partial y} \left[\frac{\partial}{\partial y} \left[\frac{\partial}{\partial y} \right] \right] + \frac{\partial}{\partial y} \left[\frac{\partial}{\partial y} \left[\frac{\partial}{\partial y} \right] \right] + \frac{\partial}{\partial y} \left[\frac{\partial}{\partial y} \left[\frac{\partial}{\partial y} \right] \right] + \frac{\partial}{\partial y} \left[\frac{\partial}{\partial y} \left[\frac{\partial}{\partial y} \right] \right] + \frac{\partial}{\partial y} \left[\frac{\partial}{\partial y} \left[\frac{\partial}{\partial y} \right] \right] + \frac{\partial}{\partial y} \left[\frac{\partial}{\partial y} \left[\frac{\partial}{\partial y} \right] \right] + \frac{\partial}{\partial y} \left[\frac{\partial}{\partial y} \left[\frac{\partial}{\partial y} \left[\frac{\partial}{\partial y} \right] \right] + \frac{\partial}{\partial y} \left[\frac{\partial}{\partial y} \left[\frac{\partial}{\partial y} \left[\frac{\partial}{\partial y} \right] \right] + \frac{\partial}{\partial y} \left[\frac{\partial}{\partial y} \left[\frac{\partial}{\partial y} \left[\frac{\partial}{\partial y} \right] \right] \right] + \frac{\partial}{\partial y} \left[\frac{\partial}{\partial y} \left[\frac{\partial}{\partial y} \left[\frac{\partial}{\partial y} \right] \right] + \frac{\partial}{\partial y} \left[\frac{\partial}{\partial y} \left[\frac{\partial}{\partial y} \left[\frac{\partial}{\partial y} \right] \right] + \frac{\partial}{\partial y} \left[\frac{\partial}{\partial y} \left[\frac{\partial}{\partial y} \left[\frac{\partial}{\partial y} \right] \right] \right] + \frac{\partial}{\partial y} \left[\frac{\partial}{\partial y} \left[\frac{\partial}{\partial y} \left[\frac{\partial}{\partial y} \left[\frac{\partial}{\partial y} \right] \right] \right] + \frac{\partial}{\partial y} \left[\frac{\partial}{\partial y} \right] \right] \right] + \frac{\partial}{\partial y} \left[\frac{\partial$ $WW = (1 \times 7 \times)^{-1}$ Q is orthogonal matric. As wiw = Warqw . W has inherent ambiguity as susceptible to totalion so don't know which source where

= Oxh(0,1) f(s) = 1exp(-1s1) l(w) = = log |w| + = = |u; \(\frac{7}{2}\) \(\frac{1}{2}\) \(\ -122 | w, Trill The (w) = > (w-1) = = +5 sign [w; xi) xi) With - WU + & [W+ - Zsign(wj xw) xw 27) 2018 2: $Ti(S,a) = p(a \mid S, Ti)$ $Tio(S,a) = p(a \mid S)$ Ti, begit to evaluate p(s): start distribution $<math>Tio(S,a) = \sum_{S \in \mathcal{B}} R(S,a) p(S,a)$ Tio(S,a) > 0 $a \sim \pi_1(S,a)$ $S(S,a) = \sum_{S \in \mathcal{B}} R(S,a) p(S) p(a \mid S)$ E $T_{r}(S,a)$ R(S,a) Show $y_{ro}=\widehat{\pi}$, $S \sim p(S)$ a~TTo(S,a) TTo (S,a) ingse = E R(s,a) $\mathbb{E}_{S \sim p(S)} \mathbb{T}_{S}(S,a) \mathbb{R}(S,a)$ antro(Sia) TO (Sia) $\leq T_1(S_a)P(S_a)$ $P(S)T_0(S_a)$ S_1a $T_0(S_1a)$ $\leq p(s) + (s,a) R(s,a)$ E R(s,a)

s ~p(s)
anti(s,a) ETIR Utro=TO ER(S,A) ~π₀ Ε πι κ ρ(s) π₀ Ε κ(S,a) Σπι φ(s) π₀ Ε κ(S,a) Σπι φ(s) π₀ Σρ(s,a) Ι EK(S,a) ERUNNEN III & P(S, a) III P(S, a) III E R

BRUNNEN III & P(S, a) III P(S, a) III VEO

d(i)E R= (SP p(a1s)) p(s) TTO (aTS) (i) FE ER = ER . R(s,a) - R(s,a) $s \sim P a \sim P_1$ $S \sim P$ $a \sim P_1$ A(s,a) = 0(e) (i) Importance, Estimate it. easier (ii) Regression, Estimating R (S,a) easier

