CMSC 25025 HW2. Zihao Wang.

1. First, fix pu and optimize over his. (xi-Vehi)

Now we want to minimizer 11 xi-pl-Vehiller, Hi=1...n. let Xi-M be Xi. let R(VK) = {y: y= VKZ ZER"} and R(VK) = { y: y=x=0 & x & R(VK)} Then Ti= Fit Fiz where Fix & R(Vh). Fix & R(Vk) Then (#) = //V/2i- xii = - xiz//= |/V/2i-xi| = 1/xiz/| Then to minimize # (=) minimize (#2) minimize // V/ \lambda - \till = \till \lambda \till \ Thus Vi Vi Zi = Vi Xii # ri= Win= Win= Win= Win= So Tita, VE (X7-M)

Plug this into \$\frac{1}{2} ||X7-M-VK-XI||^2 = \frac{1}{2} ||(I-V_KV_K^T)(X7-M)||^2

Df(μ) = $2\frac{\pi}{2}(I - V_{\mu}V_{\mu}T)^{2}(\mu - \chi_{1}) = 2h(I - V_{\mu}V_{\mu}T)^{2}(\mu - \chi_{1})$ Df(μ) = $2\frac{\pi}{2}(I - V_{\mu}V_{\mu}T)^{2}(\mu - \chi_{1})$ Df(μ) = $2\frac{\pi}{2}(I - V_{\mu}V_{\mu}T)^{2}(\mu - \chi_{1})$ Df(μ) = $2\frac{\pi}{2}(I - V_{\mu}V_{\mu}T)^{2}(\mu - \chi_{1})$ Df(μ) = $2\frac{\pi}{2}(I - V_{\mu}V_{\mu}T)^{2}(\mu - \chi_{1})$ Df(μ) = $2\frac{\pi}{2}(I - V_{\mu}V_{\mu}T)^{2}(\mu - \chi_{1})$ Df(μ) = $2\frac{\pi}{2}(I - V_{\mu}V_{\mu}T)^{2}(\mu - \chi_{1})$ Df(μ) = $2\frac{\pi}{2}(I - V_{\mu}V_{\mu}T)^{2}(\mu - \chi_{1})$ Df(μ) = $2\frac{\pi}{2}(I - V_{\mu}V_{\mu}T)^{2}(\mu - \chi_{1})$ Df(μ) = $2\frac{\pi}{2}(I - V_{\mu}V_{\mu}T)^{2}(\mu - \chi_{1})$ Df(μ) = $2\frac{\pi}{2}(I - V_{\mu}V_{\mu}T)^{2}(\mu - \chi_{1})$ Df(μ) = $2\frac{\pi}{2}(I - V_{\mu}V_{\mu}T)^{2}(\mu - \chi_{1})$ Df(μ) = $2\frac{\pi}{2}(I - V_{\mu}V_{\mu}T)^{2}(\mu - \chi_{1})$ Df(μ) = $2\frac{\pi}{2}(I - V_{\mu}V_{\mu}T)^{2}(\mu - \chi_{1})$ Df(μ) = $2\frac{\pi}{2}(I - V_{\mu}V_{\mu}T)^{2}(\mu - \chi_{1})$ Df(μ) = $2\frac{\pi}{2}(I - V_{\mu}V_{\mu}T)^{2}(\mu - \chi_{1})$ Df(μ) = $2\frac{\pi}{2}(I - V_{\mu}V_{\mu}T)^{2}(\mu - \chi_{1})$ Df(μ) = $2\frac{\pi}{2}(I - V_{\mu}V_{\mu}T)^{2}(\mu - \chi_{1})$ Df(μ) = $2\frac{\pi}{2}(I - V_{\mu}V_{\mu}T)^{2}(\mu - \chi_{1})$ Df(μ) = $2\frac{\pi}{2}(I - V_{\mu}V_{\mu}T)^{2}(\mu - \chi_{1})$ Df(μ) = $2\frac{\pi}{2}(I - V_{\mu}V_{\mu}T)^{2}(\mu - \chi_{1})$ Df(μ) = $2\frac{\pi}{2}(I - V_{\mu}V_{\mu}T)^{2}(\mu - \chi_{1})$ Df(μ) = $2\frac{\pi}{2}(I - V_{\mu}V_{\mu}T)^{2}(\mu - \chi_{1})$ Df(μ) = $2\frac{\pi}{2}(I - V_{\mu}V_{\mu}T)^{2}(\mu - \chi_{1})$ Df(μ) = $2\frac{\pi}{2}(I - V_{\mu}V_{\mu}T)^{2}(\mu - \chi_{1})$ Df(μ) = $2\frac{\pi}{2}(I - V_{\mu}V_{\mu}T)^{2}(\mu - \chi_{1})$ Df(μ) = $2\frac{\pi}{2}(I - V_{\mu}V_{\mu}T)^{2}(\mu - \chi_{1})$ Df(μ) = $2\frac{\pi}{2}(I - V_{\mu}V_{\mu}T)^{2}(\mu - \chi_{1})$ Df(μ) = $2\frac{\pi}{2}(I - V_{\mu}V_{\mu}T)^{2}(\mu - \chi_{1})$ Df(μ) = $2\frac{\pi}{2}(I - V_{\mu}V_{\mu}T)^{2}(\mu - \chi_{1})$ Df(μ) = $2\frac{\pi}{2}(I - V_{\mu}V_{\mu}T)^{2}(\mu - \chi_{1})$ Df(μ) = $2\frac{\pi}{2}(I - V_{\mu}V_{\mu}T)^{2}(\mu - \chi_{1})$ Df(μ) = $2\frac{\pi}{2}(I - V_{\mu}V_{\mu}T)^{2}(\mu - \chi_{1})$ Df(μ) = $2\frac{\pi}{2}(I - V_{\mu}V_{\mu}T)^{2}(\mu - \chi_{1})$ Df(μ) = $2\frac{\pi}{2}(I - V_{\mu}V_{\mu}T)^{2}(\mu - \chi_{1})$ Df(μ) = $2\frac{\pi}{2}(I - V_{\mu}V_{\mu}T)^{2}(\mu - \chi_{1})$ Df(μ) = $2\frac{\pi}{2}(I - V_{\mu}V_{\mu}T)^{2}(\mu - \chi_{1})$ Df(μ) =

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