

Prox (> + 6, AB)

NEM NET TEM

MIX

(2) max Tr
$$(KB^{r})^{T}$$
, γ_{a} $-G^{K}(\gamma_{a})$ $-\frac{1}{36a} \|\gamma_{3} - \chi_{2}^{n}\|_{F}^{2}$
 γ_{a}
 γ_{a}

(3) min
$$Tr((AB)^T, \gamma_i) + Tr((kB^T)^T, \gamma_i) + \frac{1}{dz} \|B - B^h\|_F^2$$

$$\tilde{z} \leq (Ab_i, \gamma_{ii}) \qquad \tilde{z} \leq (kb_i, \gamma_{ii}) \qquad (b_i, k^T \gamma_{ii})$$

U optimality condition

AT Y:

$$AT Y = AT Y =$$

$$B^{hH} = \left(B^{h} - z A^{T} X, - z (k^{F} X)^{T}\right) +$$

Algorithm I:

Computations of prox solutions:

(1)
$$P^{rox}GF*$$
 (y) = $P^{rox}GF*$ (y) = P^{rox}

i (y + 52 - V (y-s).(y-s) + 46, s.c)

(2)
$$\operatorname{Prox}_{6_{1}} G_{1} \left(\mathcal{Y} \right) = \mathcal{Y} - G_{3} \operatorname{Prox}_{6_{1}} \left(\mathcal{Y}_{6_{2}} \right)$$

$$\operatorname{againin}_{2} \left(\left| \mathcal{Y}_{6_{2}} \right| \right) + \left| \mathcal{Y}_{6_{1}} \right| \left| \mathcal{Y}_{6_{2}} \right|$$

$$\operatorname{Shrink}_{8_{6_{2}}} \left(\left| \mathcal{Y}_{6_{2}} \right| \right)$$

Algorithm II:

Back to the problem:

Let fin B

ê ~ BÂ

min
$$\sum_{j=1}^{m} \begin{bmatrix} \sum_{i=1}^{m} -(\hat{n}_{i})_{i} & (C_{i})_{i} \end{bmatrix} \begin{bmatrix} \hat{a}_{i} \\ \hat{a}_{j} \end{bmatrix}_{i} + 1 \end{bmatrix} + \sum_{i=1}^{m} (\hat{n}_{i})_{i} & (\hat{b}_{a})_{i} \end{bmatrix}$$

$$\hat{a}_{i} \geq 0$$

$$F(\hat{B}\hat{a}_{i})$$

$$G(\hat{a}_{j})$$

(i)
$$P^{rex} GF* (y) = y - G P^{rex} FG (y)$$

$$= \frac{1}{2} \left(\frac{1}{2} - \frac{1}{4} \right)^{2} + \frac{1}{4} G^{2} G^{2}$$

$$= \frac{1}{2} \left(\frac{1}{2} - \frac{1}{4} \right)^{2} + \frac{1}{4} G^{2} G^{2}$$

$$= \frac{1}{2} \left(\frac{1}{2} - \frac{1}{4} \right)^{2} + \frac{1}{4} G^{2} G^{2}$$

$$= \frac{1}{2} \left(\frac{1}{2} - \frac{1}{4} \right)^{2} + \frac{1}{4} G^{2} G^{2}$$

$$= \frac{1}{2} \left(\frac{1}{2} - \frac{1}{2} \right)^{2} + \frac{1}{4} G^{2} G^{2}$$

$$= \frac{1}{2} \left(\frac{1}{2} - \frac{1}{2} \right)^{2} + \frac{1}{4} G^{2} G^{2}$$

$$= \frac{1}{2} \left(\frac{1}{2} - \frac{1}{2} \right)^{2} + \frac{1}{4} G^{2} G^{2}$$

$$= \frac{1}{2} \left(\frac{1}{2} - \frac{1}{2} \right)^{2} + \frac{1}{4} G^{2} G^{2}$$

$$= \frac{1}{2} \left(\frac{1}{2} - \frac{1}{2} \right)^{2} + \frac{1}{4} G^{2} G^{2}$$

$$= \frac{1}{2} \left(\frac{1}{2} - \frac{1}{2} \right)^{2} + \frac{1}{4} G^{2} G^{2}$$

$$= \frac{1}{2} \left(\frac{1}{2} - \frac{1}{2} \right)^{2} + \frac{1}{4} G^{2} G^{2}$$

(2) Prox
$$g = G(\hat{a}) = agmi = \begin{cases} \frac{1}{2} \|z - \hat{a}\|_{2}^{2} + G(z) \end{cases}$$
 $\hat{x}(\hat{B}z)$

y optimely

$$= \left(\hat{a} - \zeta \hat{n} \left(\hat{B} 1\right)\right)_{+}$$

$$\Rightarrow prex (\hat{A}) = \begin{pmatrix} \vec{A} - 2 \hat{\mathcal{R}} \circ (\vec{B}1) \\ r_{AN} \end{pmatrix} +$$