

Erratum

Erratum to “Ranks of a Constrained Hermitian Matrix Expression with Applications”

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The equalities (15) and (16) should be deleted from Lemma 3 which will be reformatted as follows.

Lemma 3. *Let $A = A^* \in \mathbb{H}^{m \times m}$, $B \in \mathbb{H}^{m \times n}$, and $C \in \mathbb{H}^{p \times m}$ be given. Assume that $\mathcal{R}(B) \subseteq \mathcal{R}(C^*)$. Then,*

$$\begin{aligned} & \max_X r[A - BXC - (BXC)^*] \\ &= \min \left\{ r[A \ C^*], r \begin{bmatrix} A & B \\ B^* & 0 \end{bmatrix} \right\}, \\ & \min_X r[A - BXC - (BXC)^*] \\ &= 2r[A \ C^*] + r \begin{bmatrix} A & B \\ B^* & 0 \end{bmatrix} - 2r \begin{bmatrix} A & B \\ C & 0 \end{bmatrix}. \end{aligned} \tag{17}$$