Homework 5 Roman Munoz CS-4033

Task 1.

$$T = \sum_{i,j \neq k} (Ai:B:j - Mij)^{2} + \sum_{i \in O_{K},j = k} (Ai:B:k - Mik)^{2} + \lambda_{i} ||A||_{F}^{2} + \lambda_{2} ||B||_{F}^{2}$$

$$=>B:_{K}=\left(\sum_{i\in O_{K}}A_{i},^{T}A_{i},+\gamma_{2}I\right)^{-1}\cdot\left(\sum_{i\in O_{K}}M_{i},A_{i},^{T}\right)$$