| | path/to/your/image.png | |
|--|--|--|
| | | |
| the joint p -dimen $n=3$ as $(Column$ from lar | 1: Decomposition $J = U_J \Sigma_J V_J^{\top}$ in the case where $r_J = 2$. It components has an n -dimensional score vector (column of U_J sional loading vector (row of V_J^{\top}) associated with it; in this end $p = 4$. Each subward has an r_J -dimensional score vector ociated with it, and each feature has a r_J -dimensional loading of V_J^{\top}). Given that the singular values in Σ_J are distinct and gest to smallest, the decomposition is identifiable up to multiply one of U_J and the correspondents by -1: we can multiply any column of U_J and the correspondents | xample, (row of g vector ordered olication |

column of V_J (row of V_J^{\top}) by -1 without changing the value of $U_J \Sigma_J V_J^{\top}$.