

Solution of Homework 2

Social Networks

Exercise 4.4 Let A be a square $n \times n$ matrix whose rows are orthonormal. Prove that the columns of A are orthonormal.

Solution: Let A be $\begin{bmatrix} a_{11} & \dots & a_{1n} \\ \dots & \dots & \dots \\ a_{n1} & \dots & a_{nn} \end{bmatrix}$, the rows are orthonormal so $r_i \cdot r_j = 1$ if $i = j$ and 0 otherwise, where r_i is the i -th row of A .

The means $AA^T = A^T A = I$ since A is $n \times n$ matrix.

Therefore we can get $c_i \cdot c_j = 1$ if $i = j$ and 0 otherwise, where c_i is the i -th column of A . Thus the columns are also orthonormal.

Exercise 4.6 Prove that the left singular vectors of A are the right singular vectors of A^T .

Solution: Let $A = UDV^T$ by SVD where U is composed of the left singular values of A and V is composed of the right singular values of A . Then $A^T = (UDV^T)^T = VDU^T$, so the left singular vectors of A are the right singular vectors of A^T .

Exercise 4.31

1. Consider the pairwise distance matrix for twenty US cities given below. Use the algorithm of Exercise 2 to place the cities on a map of the US.
2. Suppose you had airline distances for 50 cities around the world. Could you use these distances to construct a world map?

Solution:

1. In order to put the cities on a map, we would compute the rank 2 approximation of the matrix of distance. This gives us a projection of the rows of the original matrix onto a two-dimensional subspace spanned by the first 2 singular vectors of the original matrix.
2. Yes, map M to a three-dimensional subspace. Do a rank 3 approximation of the distance matrix to get an approximate map of the world in three dimensions.

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