Chapter 8 Matrices and vector spaces

8.16 Diagonalization of matrices

A line apperato \mathbf{t} is representen a basi \mathbf{x}_i , i = 1, 2, ...N

A newbasisisgive by
$$\vec{x}^{j} = \sum_{i=1}^{N} S_{ij} \vec{e}_{i}$$
 and $\vec{A} = S^{-1} A S$

If \bar{x}^{j} are chose mobetheeigenve at sof $A(Ax^{j} = \lambda_{j}x^{j})$,

and S is expressed by
$$S = \begin{pmatrix} \uparrow & \uparrow & \uparrow & \dots & \uparrow \\ \bar{x}^1 & \bar{x}^2 & \bar{x}^3 & \dots & \bar{x}^N \\ \downarrow & \downarrow & \downarrow & \dots & \downarrow \end{pmatrix}$$
.

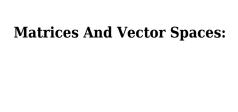
 $S_{ij} = x_i^j$ representate the ompone of the jth eigenvector

$$A_{ij}^{-} = (S^{-1}AS)_{ij} = \sum_{k} \sum_{l} S_{ik}^{-1} A_{kl} S_{lj} = \sum_{k} \sum_{l} S_{ik}^{-1} A_{kl} x_{l}^{j} = \sum_{k} \sum_{l} S_{ik}^{-1} \lambda_{j} x_{k}^{j}$$
$$= \sum_{k} \sum_{l} \lambda_{j} S_{ik}^{-1} S_{kj} = \lambda_{j} \delta_{lj}$$

$$A' = \begin{pmatrix} \lambda_1 & 0 & \vdots & 0 \\ 0 & \lambda_2 & \vdots & 0 \\ \vdots & \vdots & \vdots & 0 \\ 0 & 0 & 0 & \lambda_N \end{pmatrix} \Rightarrow TrA = TrA = \sum_{i=1}^N \lambda_i \text{ and } |A'| = |A| = \prod_{i=1}^N \lambda_i$$

Matrices And Vector Spaces

Kathleen Armour



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