









724,752 XLVLTVL Generalmente se ordena de fil formque 7, > >2> ... > >_ es une nueva representación a X (es una transformación LINEA Las columns de Y notionen de peudencia lineal Cy (u, e) = 0 si 4 x 2. Ordenado de mayor a menor, las when we y estan orderados por importancia. PCA_SD -> Ner PATO3_PCA_2D



BESSEL CORRECTION - ANEXO-

Fecha / Date:

Estimació de
$$\sigma^2 = s^2 = \frac{1}{n-1} \sum_{i=1}^{n} (x_i - \bar{x})^2$$

$$\bar{\lambda} = \frac{1}{n} \sum_{n} ni$$

$$E(s^{2}) = E\left\{\frac{1}{n-1} \left[(\pi_{i} - \bar{x})^{2} \right] \right\}$$

$$= \frac{1}{n-1} E\left\{ \left[(\pi_{i} - \mu_{i} + \mu_{i} + \bar{x})^{2} \right] \right\}$$

$$= \frac{1}{n-1} \neq \left\{ \sum (x_i - \mu)^2 + 2(x_i - \mu)(\mu - \bar{x}) + (\mu - \bar{x})^2 \right\}$$

=
$$\frac{1}{n-1}$$
 E $\left\{ \left[\sum_{i=1}^{n} (n_i - n_i)^2 + 2(m-n_i) \sum_{i=1}^{n} (n_i - n_i)^2 \right\} + n(m-\bar{x})^2 \right\}$

$$= \frac{1}{n-1} \in \left\{ \sum (x_i - \mu)^2 - 2(-\mu + \bar{\lambda})(n\bar{\lambda} - n\mu) + n(\mu - \bar{\lambda})^2 \right\}$$

=
$$\frac{1}{n-1}$$
 = $\left\{ Z(x_i-\mu)^2 - 2n(x-\mu)^2 + n(x-\mu)^2 \right\}$

=
$$\frac{1}{n-1}$$
 = $\frac{1}{2} \left(\frac{1}{2} \left(\frac{1}{2} - \frac{1}{2} \right)^2 - \frac{1}{2} \left(\frac{1}{2} - \frac{1}{2} \right)^2 \right)$

$$=\frac{1}{n-1}\left\{\left(\left(x_{i}-\mu\right)^{2}\right)-n\left(\left(x_{i}-\mu\right)^{2}\right)\right\}$$

$$\left. \left\{ \left(\chi_{i} - \mu_{i} \right)^{2} \right\} = \sigma^{2}$$

$$Var(\bar{x}) = E((\bar{x}-n)^2) = \bar{x}^2$$

$$E(s^2) = \frac{1}{n-1} \left(Z \sigma^2 - n \sigma^2 \right) = \frac{1}{n-1} \left(n \sigma^2 - \sigma^2 \right) = \sigma^2$$

Notas / Notes:

MEHE