Esercizi AE martedì 25 gennaio 2022 10:01 $\frac{2}{\sqrt{1}} = \frac{2}{\sqrt{1}} = \frac{2$

// = /+ (4)-1/ / van spiespouto do = $\frac{1}{7e(R)} = \frac{1+(P-1)r}{P}$

$$= \frac{1+rp-r}{p} = \frac{rp}{p} + \frac{1-r}{p} = r + \frac{1-r}{p}$$

$$r \in [0,1] - r \approx 1 : \frac{1}{Tr(R)} \approx 1 + 0 = 1 + 2 + 2 + 2 = 1$$

$$= r \approx 0 : \frac{1}{Tr(R)} \approx 0 + \frac{1}{p} + 2 + 2 = 1 + 2 = 1$$

$$r = 0.8$$

$$p = 5 \Rightarrow \frac{1}{Tr(R)} = 0.81$$

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SOL:

$$H = \frac{1}{m \times m} - \frac{1}{m} \frac{1}{m \times n} \frac{1}{n \times m}$$

 α) $T_{2}(H) = T_{2}(I - \frac{1}{n} \frac{1}{n} \frac{1}{n}) = 1$
 $= T_{2}(I) - T_{2}(\frac{1}{n} \frac{1}{n} \frac{1}{n}) = 1$
 $= T_{2}(I) - \frac{1}{n} T_{2}(\frac{1}{n} \frac{1}{n}) = 1$
 $= m - \frac{1}{n} M = m - 1$

5)
$$H1 = (I - 11I)1 = I1 - 11II) = 0$$

$$= 1 - 11II = 0$$

$$= 1 - 11III = 0$$

$$\frac{1}{2} = \frac{1}{2} = \frac{1}$$

$$\frac{ES3}{SVD} = \begin{bmatrix} 1 & 1 \\ 2 & -2 \\ 2 & 2 \end{bmatrix}$$

$$A = 0 \times 0 \times 0$$

$$0 \times$$

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S_1 & O & \dots & O \\
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O & S_2 & \dots & S_min(m,k) \\
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1)
$$AAT = \begin{pmatrix} 1 & 1 & 1 \\ 2 & -2 & 2 \\ 2 & 2 \end{pmatrix} \begin{pmatrix} 1 & -2 & 2 \\ 1 & -2 & 2 \end{pmatrix} = \begin{bmatrix} 2 & 0 & 4 \\ 9 & 8 & 8 \end{bmatrix} = k$$

$$ATA = \begin{bmatrix} 9 & 1 \\ 1 & 9 \end{bmatrix} = H$$

2) untovalori e autovett. di K

$$det \left(\frac{2-1}{8-1} \right) = (8-1) det \left(\frac{2-1}{1} + \frac{1}{8-1} + \frac{1}{8-1} \right) = (8-1) det \left(\frac{2-1}{1} + \frac{1}{8-1} + \frac{1}{8-1} + \frac{1}{8-1} \right) = (8-1) det \left(\frac{2-1}{1} + \frac{1}{8-1} + \frac{1}{8-$$

$$= (8-1)((2-\lambda)(8-\lambda)-16) =$$

$$= (8-\lambda)((2-\lambda)(8-\lambda)-16) =$$

$$= (8-\lambda)((1-10) = 0$$

$$\lambda_1 = 0 \quad \forall \lambda_2 = 8 \quad \forall \lambda_3 = 10$$

$$\text{Autorition a. } \lambda_2 = 8$$

$$(K-\lambda_2 I) = 0$$

$$\begin{cases} -6 & 0 & 0 \\ 4 & 0 & 0 \end{cases} \begin{bmatrix} 521 \\ 522 \\ 4 & 0 \end{bmatrix} = 0$$

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3) Autoralani e rettoni di H

$$dut(H-\lambda I)=0$$
 $dut(9-\lambda 1)=0$
 $(9-\lambda 1)=0$
 $(9-\lambda 1)=0$

$$(1-8)(1-10) = 0$$

$$\lambda_{1} = 8 \quad \forall \lambda_{2} = 10$$

$$\lambda_{2} = 10$$

$$\lambda_{3} = 10$$

$$\lambda_{4} = 10$$

$$\lambda_{5} = 10$$

$$\lambda_{$$