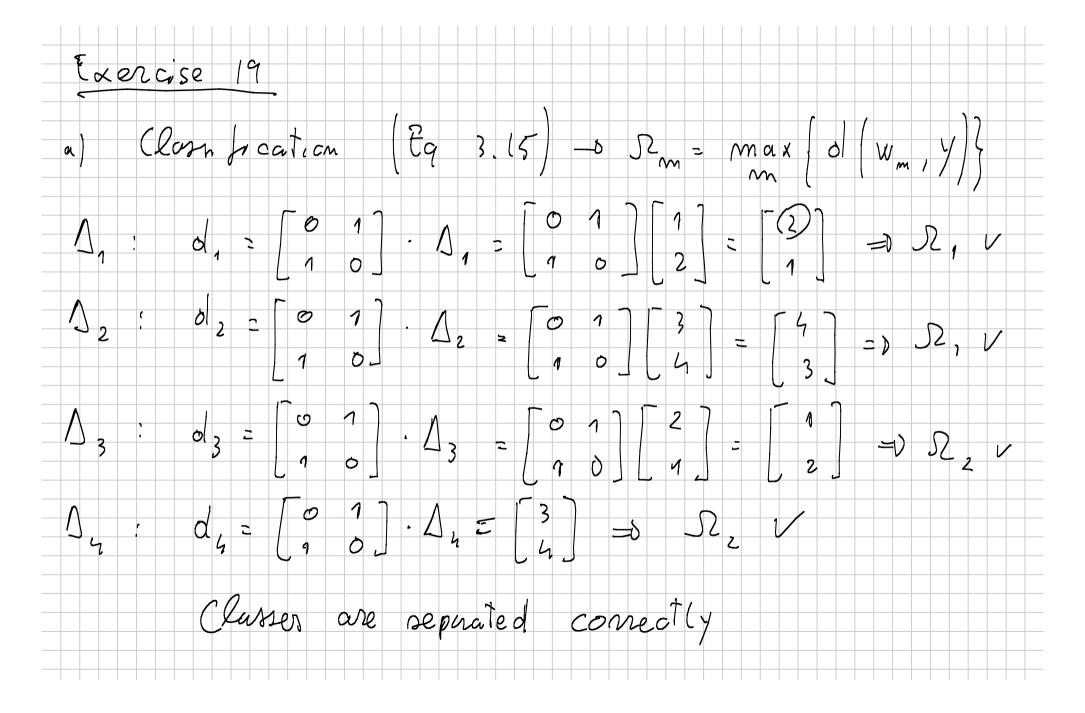
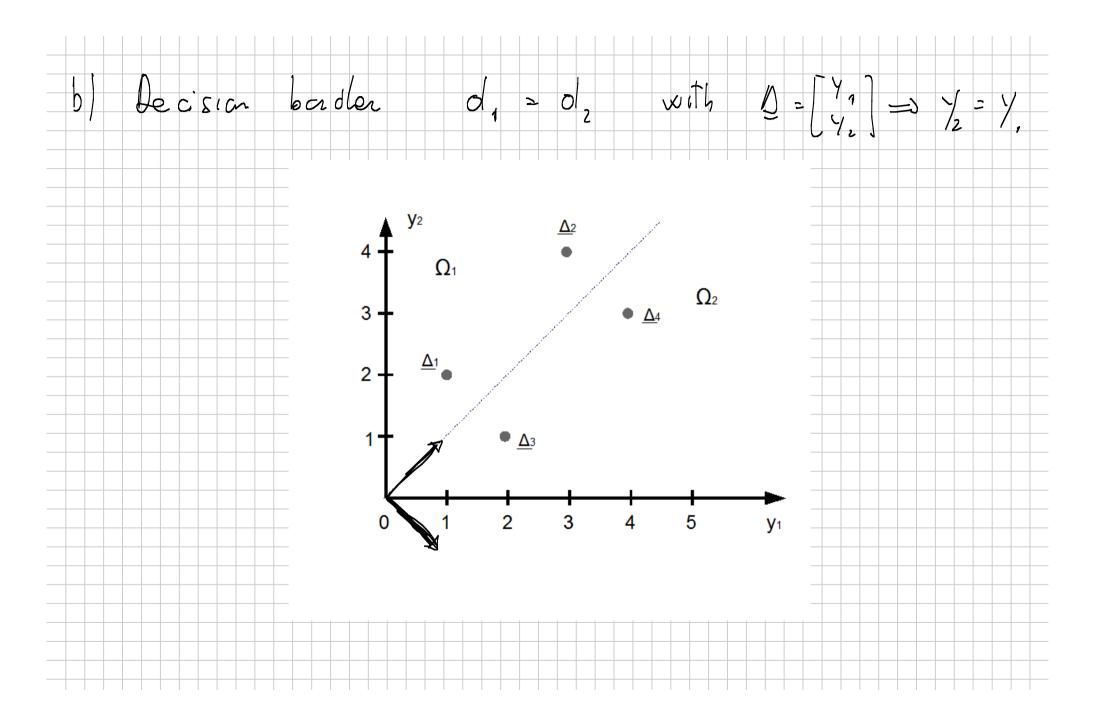
TUTORIAL 08

13.06.2014

Outline:

- Classification, ole asion Senctions





e)
$$PCA \Rightarrow \Delta' = U \cdot \left[\Delta - m_{\lambda}\right]$$

average value $m_{\lambda} = \frac{1}{K} \sum_{k=1}^{K} \Delta_{k} \left(E_{q} \cdot 2.64\right)$
 $\Rightarrow m_{\lambda} = \frac{1}{4} \left(\left[\frac{1}{2}\right] + \left[\frac{3}{4}\right] + \left[\frac{2}{4}\right] + \left[\frac{4}{3}\right]\right) = \left(\frac{2.5}{2.5}\right)$

Covariana matrix C_{λ}
 $C_{\lambda} = \frac{1}{K} \cdot \sum_{k=1}^{K} \left[\Delta_{k} \cdot \Delta_{k}\right] - m_{\lambda} m_{\lambda}^{T} = \frac{1}{4} \left(\left[\frac{1}{2}\right] \left[\frac{1}{2}\right] + \left[\frac{3}{4}\right] \left[\frac{3}{4}\right] + \left[\frac{2}{4}\right] \left[\frac{2}{4}\right] \left[\frac{1}{4}\right] \left[\frac{4}{3}\right] \left[\frac{4}{3}\right] = \frac{1}{4} \left[\frac{2}{4}\right] \left[\frac{2}{4}\right] \left[\frac{1}{4}\right] \left[\frac{2}{4}\right] \left[\frac{4}{3}\right] \left[\frac{4}{3}\right] = \frac{1}{4} \left[\frac{2}{4}\right] \left[\frac{2}{4}\right] \left[\frac{2}{4}\right] \left[\frac{4}{3}\right] \left[\frac{4}{3}\right] = \frac{1}{4} \left[\frac{2}{4}\right] \left[\frac{2}{4}\right] \left[\frac{2}{4}\right] \left[\frac{4}{3}\right] \left[\frac{4}{3}\right] = \frac{1}{4} \left[\frac{2}{4}\right] \left[\frac{2}{4}\right] \left[\frac{2}{4}\right] \left[\frac{4}{3}\right] \left[\frac{4}{3}\right] = \frac{1}{4} \left[\frac{4}{3}\right] \left[\frac{4}{3}\right] \left[\frac{4}{3}\right] \left[\frac{4}{3}\right] = \frac{1}{4} \left[\frac{4}{3}\right] \left[\frac{4}{3}\right] \left[\frac{4}{3}\right] \left[\frac{4}{3}\right] = \frac{1}{4} \left[\frac{4}{3}\right] \left[\frac{4}{3}\right] \left[\frac{4}{3}\right] = \frac{1}{4} \left[\frac{4}{3}\right] \left[\frac{4}{3}\right] \left[\frac{4}{3}\right] \left[\frac{4}{3}\right] = \frac{1}{4} \left[\frac{4}{3}\right] \left[\frac{4}{3}\right] = \frac{1}{4} \left[\frac{4}{3}\right] \left[\frac{4}{3}\right] \left[\frac{4}{3}\right] = \frac{1}{4} \left[\frac{4}{3}\right] = \frac{1}{4} \left[\frac{4}{3}\right] \left[$

