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19/12/2011 - Lab experience n.10

Vector Quantization

Implement a vector quantization scheme for a natural image:

- Build the codebook by means of generalized Lloyd-Max algorithm, using blocks 8×8 pixels.
- Reconstruct the image at each iteration, using the codebook as given at that iteration, and compute the reconstruction error.
- Repeat the procedure many times with different initializations, checking their effect on the convergence