Università degli Studi di Brescia

Multimedia Communication Services
Lab experience n. 9

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.

- Recontruct 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