Dictionary Learning

Mathematical Models and Methods for Image Processing

Giacomo Boracchi
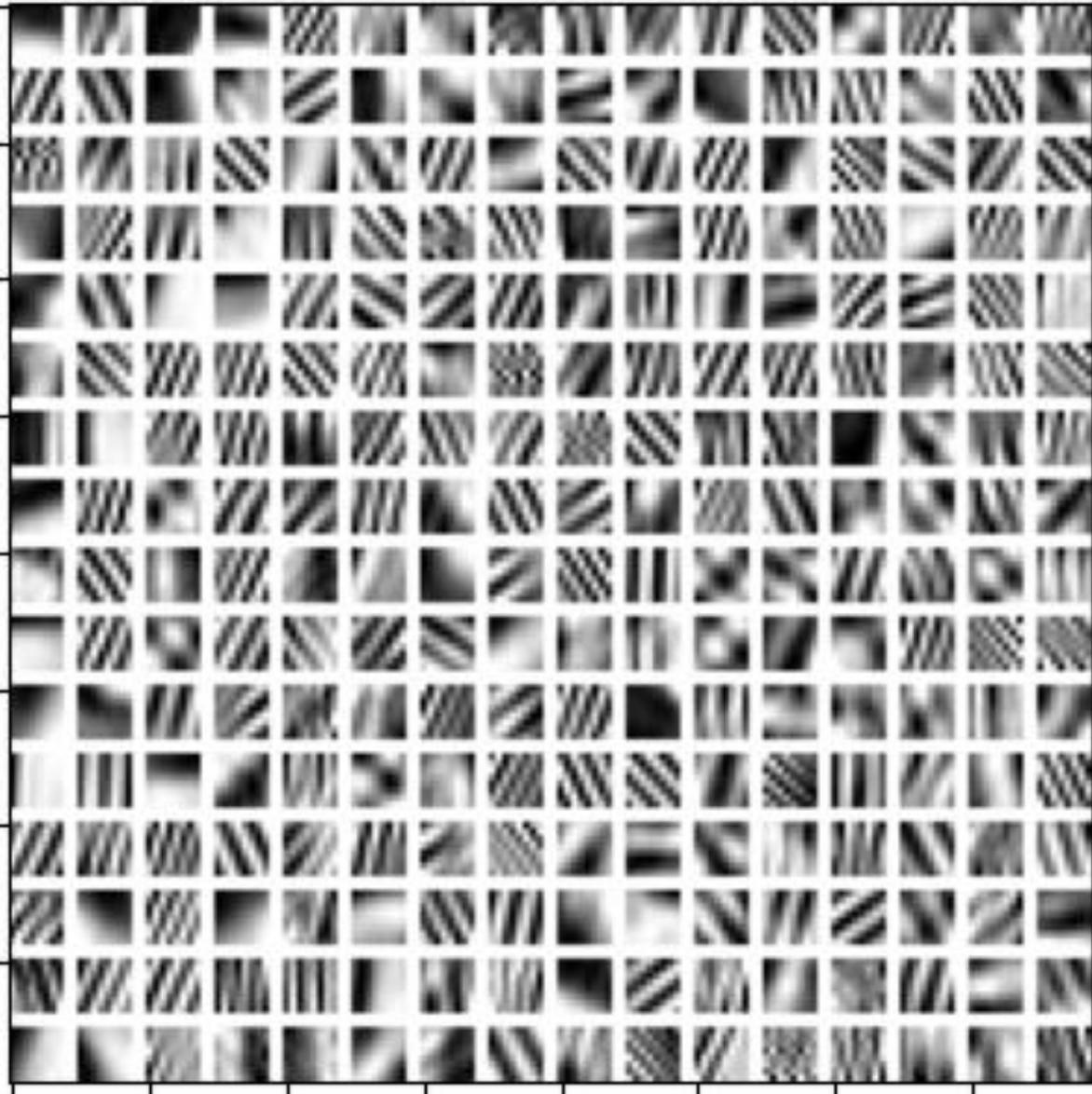
March 24th 2026

Examples of Dictionaries
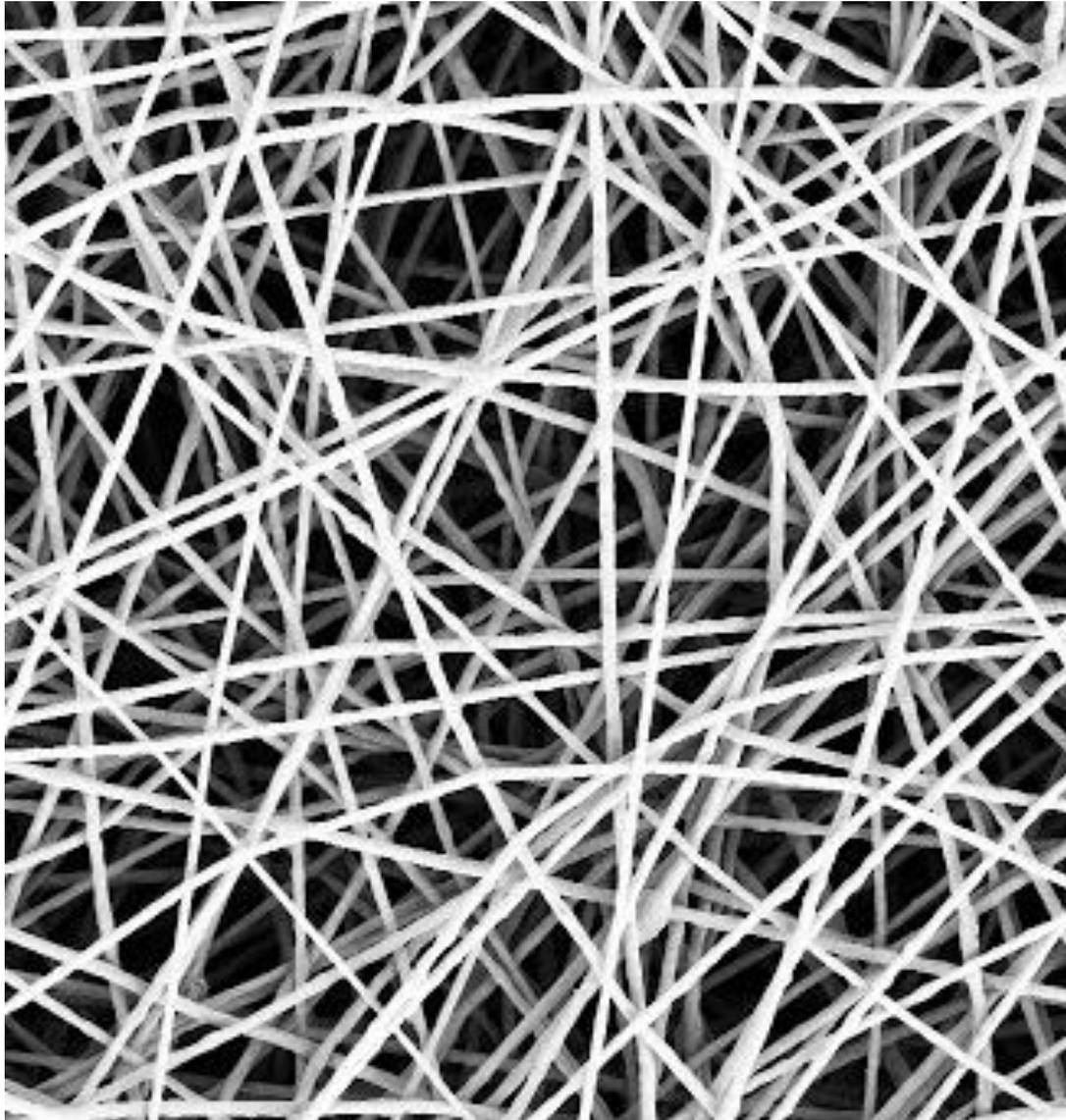
Barbara

Learned Dictionary

G.Boracchi

Examples of Dictionaries
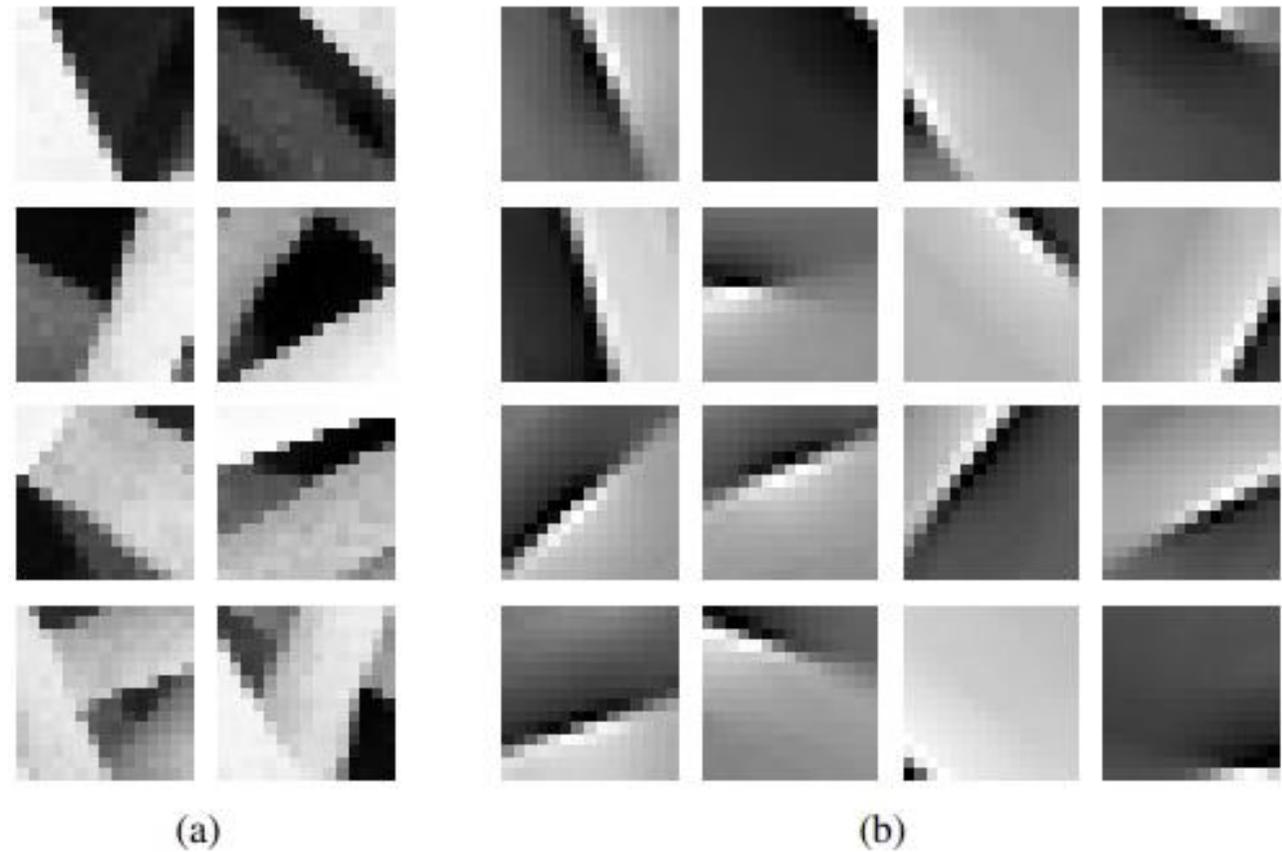
Nanofiber

Learned Dictionary

Fig. 2. (a) Examples of training patches. (b) Atoms of the dictionary learned by the ADMM algorithm [51]. Here we show only 16 atoms.

Carrera D., Manganini F., Boracchi G., Lanzarone E. *"Defect Detection in SEM Images of Nanofibrous Materials"*, IEEE TII 2017