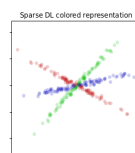
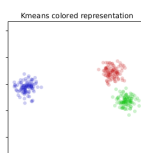
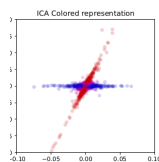
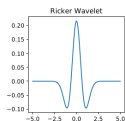
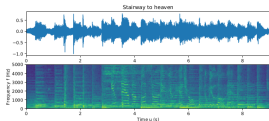
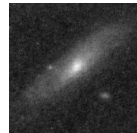
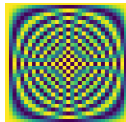
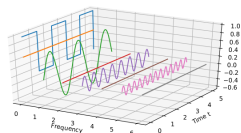


APM 51055 : Signal Processing

from Fourier to Machine Learning

R. Flamarly



1. Fourier analysis and analog filtering

Fourier Transform, convolution, analog signal processing.

2. Digital signal processing

Sampling, Fast Fourier Transform (FFT), Image processing.

3. Random signals

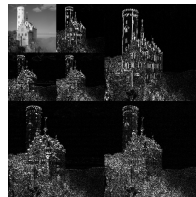
Noise stochastic processes, linear modeling and filtering.

4. Signal representation and dictionary learning

Non-stationarity, Short Time FT, wavelets, DCT, dictionary learning.

5. Signal processing with machine learning

Learning representations, generating realistic signals.



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Courses + practical sessions in Python