

Condition Monitoring Data of a Subject

Single Values

Age = 400 days

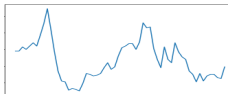
current temperature = 65 °C

of alarms in last 7 days = 10

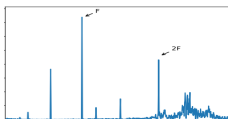
variance of temperature = 5.6

days from last failure = 94

Arrays / Time Series

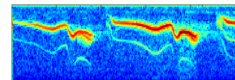


Temperature history

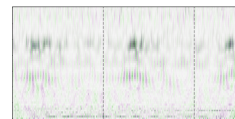


Vibration frequency spectrum

Matrices / Images



Short time Fourier Transform
of acoustic noise



Wavelet Transform
of vibration data

Predict

Predictive Maintenance
Model



one of

Healthy

Faulty

Fault Detection

Will fail
soon

Won't fail
soon

Failure Prediction

Remaining Useful Life
is 23 days

Prognostics