



Read me file: Codes, videos and supporting materials for "Signal processing for condition-based maintenance of rotating machines using vibration analysis: A tutorial"

The codes, videos and supporting materials in this directory support the work: Matania, O.; Bachar, L.; Bechhoefer, E.; Bortman, J. Signal Processing for the Condition-Based Maintenance of Rotating Machines via Vibration Analysis: A Tutorial. Sensors 2024, 24, 454. <https://doi.org/10.3390/s24020454>

You can use all the files in this directory and the article itself for any academic purpose, provided that proper citation to the article is given. For any problems or questions, you are welcome to send an email to omrimatania@gmail.com.

The demonstrations were implemented in Matlab and Python. The two directories are identical in content; that is, everything in the Matlab implementation is also available in the Python implementation and vice versa. The Python implementation is provided using [Jupyter Notebook](#), so you need to install it before use.

The codes in Matlab and Python and the supporting materials are available here:
https://github.com/omriMatania/sp_for_cbm_of_rotating_machines_using_vibration_analysis_tutorial

The data for the codes is available here:
https://drive.google.com/drive/folders/1jgkmCK8TnTbflI9ESwhV_Vo1HVy-3g0I?usp=sharing

The videos are available here:
<https://drive.google.com/drive/folders/1qpljfU3kxNwzJXfwgpG45rARebo6L3DV?usp=sharing>