

## REFERENCES

- [1] A. Ibrahim, A. Eltawil, Y. Na and S. El-Tawil, "A Machine Learning Approach for Structural Health Monitoring Using Noisy Data Sets," in *IEEE Transactions on Automation Science and Engineering*, vol. 17, no. 2, pp. 900-908, April 2020, doi: 10.1109/TASE.2019.2950958.
- [2] Yu, S., Ma, J., & Wang, W. (2019). Deep learning for denoising. *Geophysics*, 84(6), 1-107. doi:10.1190/geo2018-0668.1
- [3] Arsene, C. (2019). Complex Deep Learning Models for Denoising of Human Heart ECG signals. *EUSIPCO.2019*, 11-18. doi:10.31224/osf.io/3sdfa
- [4] Stanford Lecture Collection | Convolutional Neural Networks for Visual Recognition (Spring 2017): <https://www.youtube.com/playlist?list=PL3FW7Lu3i5JvHM8ljYj-zLfQRF3EO8sYv>
- [5] Digital Signal Processing (ECSE-4530) Lectures, Fall 2014: <https://www.youtube.com/playlist?list=PLuh62Q4Sv7BUSzx5Jr8Wrxxn-U10qG1et>
- [6] Keras documentation: <https://keras.io/api/>
- [7] Tensorflow documentation: [https://www.tensorflow.org/api\\_docs/python/tf](https://www.tensorflow.org/api_docs/python/tf)
- [8] Pandas documentation: <https://pandas.pydata.org/docs/>
- [9] SciPy documentation: <https://www.scipy.org/docs.html>
- [10] NumPy documentation: <https://numpy.org/doc/>
- [11] matplotlib documentation: <https://matplotlib.org/contents.html>
- [12] General Building Requirements in India: <http://mohua.gov.in/upload/uploadfiles/files/Chap-4.pdf>
- [13] O. Abdeljaber, O. Avci, M. S. Kiranyaz, B. Boashash, H. Sodano, and D. J. Inman, "1-D CNNs for structural damage detection: Verification on a structural health monitoring benchmark data," *Neurocomputing*, vol. 275, pp. 1308–1317, Jan. 2018
- [14] O. Avci, O. Abdeljaber, S. Kiranyaz, M. Hussein, and D. J. Inman, "Wireless and real-time structural damage detection: A novel decentralized method for wireless sensor networks," *J. Sound Vib.*, vol. 424, pp. 158–172, Jun. 2018.
- [15] <https://towardsdatascience.com/stochastic-gradient-descent-clearly-explained-53d239905d31>
- [16] <https://brilliant.org/wiki/fourier-series/#:~:text=A%20Fourier%20series%20is%20a,larger%20sum%20of%20trigonometric%20terms>
- [17] <https://datascience.stackexchange.com/questions/40067/confusion-matrix-three-classes-python>