This document lists different citations and related references which may be useful for the master project.

## Citations

- Multilayer perceptron as an universal function approximator [1, 2] (found in [8])
- Optimal brain surgeon: algorithm for network pruning [3] (found in [8])
- Nguyen-Widrow algorithm: for initialization of weights and biases [5] (found in [8])
- Levenberg-Marquard algorithm: learing algorithm [7] (found in [8])
- Error measurement and exemplary problems [6] (found in [4])

## References


[1] Cybenko G. *Approximation by superposition of a sigmoïdal function*. Mathematics of Control Signals and Systems, 2(4):303-314, 1989.

[2] Funahashi K. *On the approximate realisation of continuous mapping by neural networks*. Neural Networks, 2:183-192, 1989.

[3] Hassibi B., Stork D. G. *Second order derivatives for network pruning: optimal brain surgeon*. Advances in Neural Information Processing Systems, 5:164-171, 1993.

[4] Kriesel D. *A brief introduction to neural networks*. Available at `http://www.dkriesel.com`, 2007.

[5] Nguyen D., Widrow B. *Improving the learning speed of 2-layer neural networks by choosing initial values of the adaptative weights*. Proceedings of the International Joint Conference on Neural Networks IJCNN'90, San Diego, USA, 3:21-26, 1990.

[6] Prechelt L. *A set of neural network benchmark problems and benchmarking rules*. Technical Report, University of Karlsruhe, Germany, 21:94, 1994.

[7] Thomas P., Bloch G. *From batch to recursive outlier-robust identification of non-linear dynamic systems with neural networks*. Proceedings of the IEEE International Conference on Neural Networks ICNN'96, Washington D. C., USA, 1:178-183, 1996.

[8] Thomas P., Choffel D., Thomas A. *Simulation reduction models approach using neural network*. $10^{\text{th}}$ Internal Conference on Computer Modelling and Simulation EUROSIM'08, Cambridge, United Kingdom, 679-684, 2008.