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Automation and industry informatics



Master Thesis

Title

Subtitle

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1 Introduction

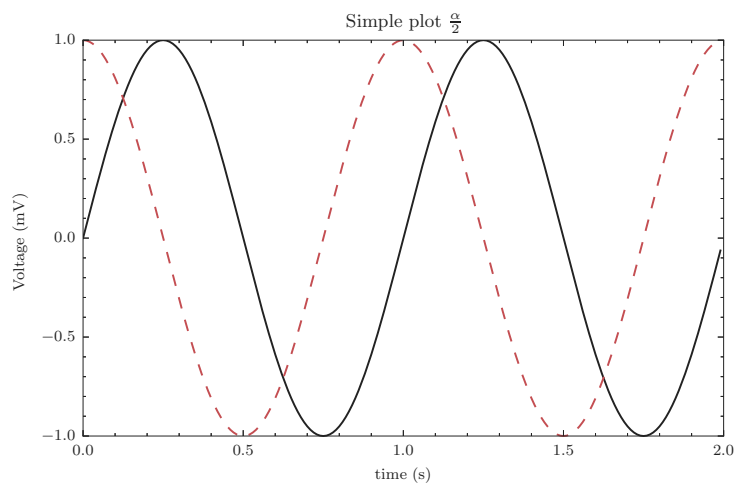


Fig. 1: test

2 Background

2.1 Supervised learning

2.2 Neural networks

2.2.1 Perceptron

2.2.2 Learning and optimalization

2.3 Recurrent neural networks

2.3.1 Vanilla version

2.3.2 Long-short-term-memories

2.3.3 Gated recurrent units

2.3.4 Other types of RNN

2.3.5 Problems using RNN

2.4 High order neural networks

2.4.1 High order neural unit

2.4.2 Recurrent HONN

2.4.3 Problems using HONN

3 Experimental Setup

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5 Conclusion

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Appendix