

School of Computer Science and Information Technology  
Lucerne University of Applied Sciences and Arts (Switzerland)

THESIS TITLE  
subtitle

## BACHELOR THESIS

presented to School of Computer Science and Information Technology of Lucerne  
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by

**Author Name**

from

Lucerne (Switzerland)

# Declaration

Bachelor Thesis at Lucerne University of Applied Sciences  
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Industry partner/provider:	Company Name

## Code/Thesis Classification

- ☐ Public (Standard)
- ☐ Private

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## Expression of thanks and gratitude

Thanks to my family, relatives and firends for all the support given to finish this thesis.

Author Name, 2024

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# Summary

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# Glossary

**Cognitive computing** A set of theories and techniques to let computers to mimic the mechanisms of the human brain. It provides the basis for the practical application of cognition and learning theories to computer systems with the use of soft computing methods..

**Computing with words and perceptions** A process allowing to perform computations on words, phrases, and prepositions drawn from a natural language, which describe perceptions of people towards different aspects of the context they are surrounded by. This is based on the fuzzy logic toolbox and allows to represent and perform operations on the meaning of words.. 1

**Convolutional neural network** A class of neural networks commonly used for image analysis that is relying on convolution operations to extract features from data..

**Fuzzy logic** An extension of classical binary logic, where the truth value of propositions can not only be completely true or false, but also partially true and false to varying degree.. 1

**Perceptual computing** A set of theories and techniques allowing computers to compute and reason with perceptions and imprecise data..



# Acronyms

**HSLU** Lucerne University of Applied Sciences and Arts. 1

**NN** Neural Network. 1

# **1 Main Content**

This is a template of Lucerne University of Applied Sciences and Arts (HSLU) and then. This section usually comprises different chapters and subchapters explaining various concepts and referring to external results [1]. Content may also refer to special expressions such as that has to be explained in a separate section. Here we also have Fuzzy logic enough space and Computing with words and perceptions to discuss the concept of Neural Network (NN) and so on.

## **1.1 A section**

### **1.1.1 a subsection**

**a paragraph**

**A subparagraph**

# Bibliography

- [1] R. Christen, L. Mazzola, A. Denzler, and E. Portmann, “Exogenous Data for Load Forecasting: A Review:,” in *Proceedings of the 12th International Joint Conference on Computational Intelligence*, (Budapest, Hungary), pp. 489–500, SCITEPRESS - Science and Technology Publications, 2020.