

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

THESIS TITLE  
subtitle

BACHELOR THESIS

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by

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from

Lucerne (Switzerland) and Bern (Switzerland)

# Declaration

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

## Code/Thesis Classification

- Public (Standard)
- Private

## Declaration

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## Expression of thanks and gratitude

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

Author Name and Second Author, 2025

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# Summary

The content of your thesis in brief.

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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

# Chapter 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.

### 1.1 First Section

Followed by a brief introduction, the section may comprise several subsections explaining various concepts and referring to external results [1].

#### 1.1.1 First Subsection

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.

# Chapter 2

## Research Questions

A relevant part of every scientific thesis build the formulation and declaration of research questions. These should be kept as clear and straightforward as possible, despite as preceise as required for scientific analysis. In this thesis, research questions can properly listed with the command:

$$\backslash resq\{number\}\{question\}$$

*RQ1. How many research questions will be answered in this thesis?*

*RQ2. Does there exist an easier way to declare research questions?*

*RQ3. Is it feasible to answer all these questions?*

# 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.