Universität Hamburg
Department Informatik
Knowledge Technology, WTM

On the Relationship between Generative Encodings .. - in-depth analysis

Seminar Paper

Bio-inspired Artificial Intelligence

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Abstract

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Contents

1 Introduction

This paper: [**?**]
What research question is examined in the paper?
Solution suggested by this paper?

2 related work

Typical approaches from related work
- typically the two problems (1. encoding of nervous systems for evolution of large good neural networks and 2. synaptic plasticity in neural networks) are studied separately
About generative encodings:
- [**?**] → L-Systems
- [**?**] → neuroscience toolbox
About synaptic plasticity:
- [**?**] → importance of synaptic plasticity for learning - [**?**] → synaptic plasticity in neural networks

3 Background Information

From genes to nervous systems
- Direct and developmental encodings
Skinner-box
- Where and for what purpose can this experiment be used?
Definition of regularity used in this paper

4 Approach description

Proposal of the paper
- bias towards regularity is critical to evolve plastic neural networks

5 Approach analysis

results from the experiment

6 Conclusion

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