

Ladder of Trust

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Introduction

Motivation and Introduction:

- Sustainability of increasing importance → ethics
- Systems → complex[↑], emergent[↑]
 - explained with self-organisational theory
 - fluidisation-solidification theorem [HT22]

Method and Goal:

- Systems Theory, Orgiton Theory: Cybernetic elements of *information, energy and mass*
- → Ladder of Trust Model: Ethics Model of Society

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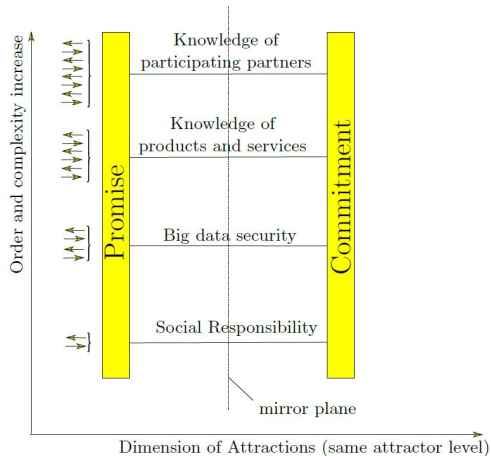


Figure 1: Ladder of Trust embedded in the orgiton-theory context.

Applied *Ethics*:

- Two pillars: Promise / Commitment (Charles Fried) [Fri21]
- When buying → obey human rights → moral standards in future society → level↑
- Like Wittgensteinian '*ladder of knowledge*' [Wit11]
- Mirror plane of pillars (directional information exchange)
- Increasing bundles of bi-directional coupled states

Ethical Society:

- Multiplication of basic units (orgitons) according to Figure 1 in Figure 2
- Parquet of Trust: Autopoietic 'planar' closed systems which reinforce themselves

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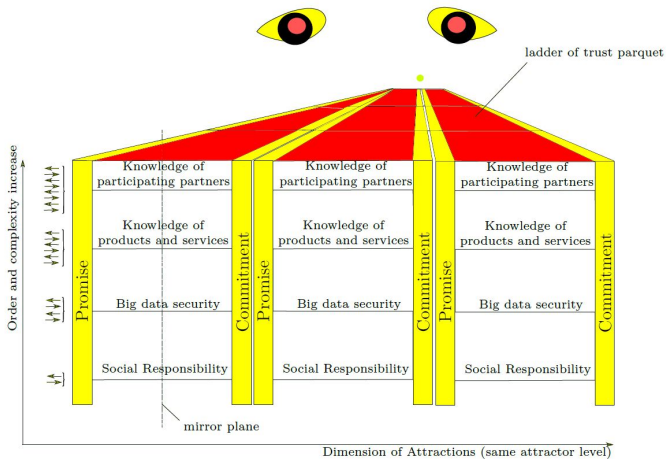


Figure 2: Ladder of Trust Parquet.

Sample Supply Chain (SC) of book retail:

1 Social Responsibility

- Offer Book (Promise) → Buy Book (Commitment)
- communication (e.g. 24h-hotline)

2 Big Data Security

- RFID: Transparent transport process (time, location)

3 Knowledge of Data and Services

- transparency, fairness
- AI-applications as service (e.g. word-cloud, summary, citation)

4 Knowledge of Participating Partners

- Transparent information of members of supply chain: human rights, ecological etc. (promise), collaboration e.g. caretaking contract (commitment)
- growth conditions

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Ladder of Trust - Educational Tool II

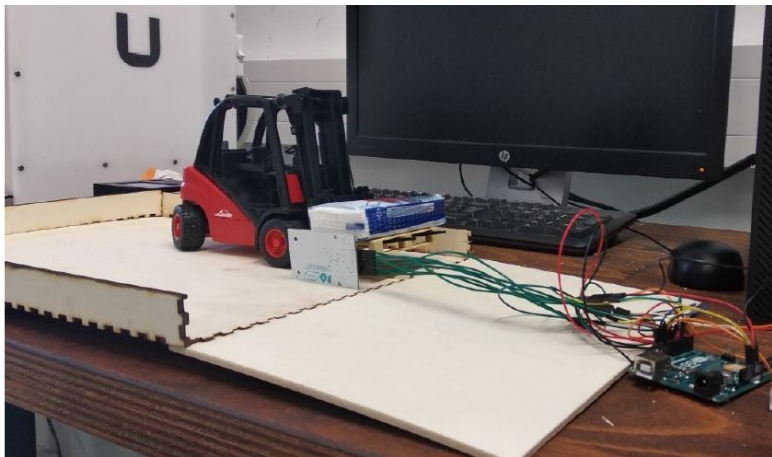


Figure 3: Model of RFID-based items identification system [HAT20]

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Conclusion and Outlook

Limits:

- Qualitative approach
- Identification of uni-/bidirectionality & dimensionality

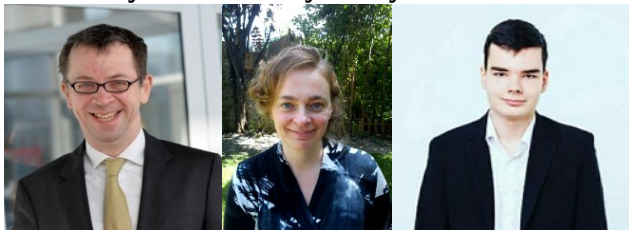
Conclusion:

- Stability: Ladder of Trust gains societal 'dynamic stability' (ordered growth process)
- Interdisciplinary approach

Outlook:

- Mathematical, chaostheoretical (e.g. Sarkovskii Theorem) formulation
- Computer simulation
- → Learning material for educational tool

Thank you cordially for your attention!



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PS.: The presentation can later also be found at:

<http://www.dr-heiden.com/Vortraege.htm>



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