Chapter 1 – Introduction

* Importance of the information systems, and their capability in word recognition. How to represent information.
* How to structure information. (Talk about controlled vocabularies).
* Ontologies as a structured representation of information.
* Domain ontologies as form of structure information in a specific domain.
* Maintain and update an ontology (ontology learning)
* Difficulties in capture/recognize concepts. How to capture / recognize concepts.
* How recognize relations in words. How to measure meaning. How to quantify relations of words?
* From unstructured information to concepts and relations.

Chapter 1.1 – Motivation – No existence of approach to

What can be done to measure a relation and find its meaning?

This document presents an approach to help discover a solution, knowing that there are no real pure methods to help measure a relation between two concepts.

Chapter 2 – Literature Review (State of the art)

Chapter 2.1 – Controlled Vocabularies (What are they? What do they represent?)

* Ontologies (Definition, Construction, relations, concepts)
* Relations (meaning)
* Concepts
* Ontology learning
* E-cognos (new way of ontology creation).
* Application domain. (Practical cases where association rules are used)

Chapter 2.2 – Pattern Extraction

* Data mining. (What is DM? Techniques used today?)
* Association Rules (Definition, Rules)
  + Algorithms to discover [ECLAT, APRIORI, FP-GROWTH]
  + Weaknesses/Strengths between them
  + Why FP-Growth?
* Application domain. (Pratical cases where association rules are used)

Chapter 3 – Secção teórica (modelo/abordagem proposta) ???

Chapter 4 – Metodologia proposta

Chapter 5 – Apresentação e análise de Resultados

Chapter 6 – discussão dos resultados, casos de uso

Chapter 7 – Conclusão e perspectivas futuras