

Concept Drift: Status Report

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Abstract. In the Semantic Web, *concepts* are the central constructs that are used to describe sets of objects with shared characteristics. Although it is widely assumed to be stable, the meaning of these concepts can change over time: we call this *concept drift*. This document reports the status of a research plan to study concept drift in the Semantic Web.

Keywords: Semantic Web, Concept Drift

1 Introduction

Problem Statement: What problem are you trying to solve?

Relevancy: Why is the problem relevant?

The remaining of this paper is organised as follows.

2 Related Work

3 Research Questions

Research Questions: What are the research questions that you plan to address?

The main research question this plan addresses is:

What are the causes and consequences of the variation of meaning in concepts on the Semantic Web?

We structure this question in multiple specific research questions:

- How stable is the meaning of concepts in the Semantic Web at its full scale?

4 Hypotheses

Hypotheses: What hypotheses are related to your research questions?

5 Approach

Approach: How are you planning to address your research questions and test your hypotheses?

6 Reflections

Reflections: Why do you think you will succeed where others failed?

7 Evaluation Plan

Evaluation plan: How will you measure your success - faster/more accurate/less failures/etc.?

8 Conclusions