

Internship offer for Master 2 Research

Title: Pattern mining for ontology learning

Keywords: Pattern Mining, Ontology learning, Automated ontology building from texts, NLP, Machine learning, Text Mining.

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Duration: 6 months **Grant:** 508€/month

Required skills: Strong theoretical and practical knowledge of NLP and machine learning and text mining technique, Java programming, knowledge about ontologies

Work place: LINA, Nantes

PhD opportunity: possible depending on the performance

Application: To apply, please submit by email a curriculum vitae (CV), a cover letter and your transcripts of the two last years to advisors mentioned above.

Topic. The wide availability of rich textual resources through the Web, the interest for automating ontology building from texts (aka ontology learning) is growing. Some tools using techniques developed in various research areas, such as NLP, machine learning and text mining, have been employed to extract and organise implicit or explicit knowledge expressed via those texts. However, the usage of techniques mentioned above has been not fully explored for enriching an existing ontology.

The aim of the Internship is to analyse deep parsing techniques (belonging to NLP) and learning techniques for proposing a method and a tool: i) to discover **new** syntactic (or linguistic) patterns suggesting **core relationships** defined in a given **core ontology**; and ii) to use these and existing patterns and learning techniques to classify, under **core concepts**, the **concepts** extracted from one or several texts.

References

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