Student Internship

at the Centre de Recherche Public - Gabriel Lippmann, a fast growing public establishment for applied scientific research and technology transfer in Luxembourg, in its "Informatics, Systems and Collaboration" Department (ISC):

**Topic: User-friendly interface tailored for interactive data clustering**

**Context**

User interaction is a key aspect of visual analytics, which aims to combine the power of automatic computation and the abilities of the human brain. Cadral is a software platform developed at the Centre de Recherche Public – Gabriel Lippmann for decision support and visual data processing. In order to extract information and use it operationally, Cadral offers to cluster large datasets according to different state-of-the-art and original techniques, and then allows the user to refine the results through a set of operations (fusion, deletion, replacement, splitting, manual correction...).

![Manipulation of data clusters in Cadral](image)

**Objectives**

The internship is concerned with the development of an original and user-friendly interface for applying and testing cluster modifications. A scientific and industrial state of the art in visual analytics will be required, as well as the identification of realistic potential use-cases. Additionally the internship will propose to enrich Cadral with specific views showing instantaneously the impact of the modifications.

**Profile**

- Solid programming skills (java / javascript...), with a sense for innovation
- Knowledge and/or interest in man-machine interface, data visualization, data mining
- Good spoken and written English
- Level: master 1st or 2nd year (the internship is primarily intended for a master thesis)
- Duration: 5 to 6 months

**Contact**

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