

DATE: 10/06/2019

PhD Vacancies at IDLab: Data-efficient AutoML

Job Description

The goal of the PhD research is to design tools and techniques to automate key parts of the machine learning pipeline in order to build the models smarter, better and faster. In the proposed framework, we want to progressively automate the data science process, from data collection to training the machine learning models. This includes techniques for meta-learning (learning to learn), deep learning models, efficient data collection and labeling (active learning), etc. PhD students will develop state-of-the-art algorithms to automate various Machine learning tasks prioritizing the time-consuming and laborious steps in the AutoML flow, such as (data-efficient) modeling, and data collection.

The proposed PhD research is defined within the context of several national and international research projects on automatic machine learning (AutoML). While grounded in fundamental academic research, as a PhD candidate you will also participate in collaborative research with industrial and/or academic partners in Flanders and/or on a wider geographic scale (e.g., EU H2020 projects), in the framework of new/ongoing projects. The SURrogate MOdeling (SUMO) team lead by prof. dr. Tom Dhaene offers a **fully funded PhD position**, provided positive intermediate evaluation, **starting fall 2019**.

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