

Open PhD Positions

The Center for Applied Intelligent Systems Research <http://islab.hh.se/> at Halmstad University, Sweden, is currently looking for **two PhD candidates** to work within our research projects together with Volvo Group Trucks Advanced Technology & Research and the local electricity distribution company, Halmstads Energi och Miljö AB.

Both PhD theses will be in the field of **data mining, machine learning and data analysis**, with the first focusing on methods that allow combining on-board and off-board vehicle data, and the second on analyzing energy usage patterns for improving sustainability.



In the first project we will be working on methods for analyzing data coming from multiple sources, with the specific goal of accurately estimating the state of health and remaining useful life of a number of components in heavy duty trucks, buses and construction equipment.

This will entail developing novel algorithms and methods for combining different types of information, discovering interesting relations in the available data, evaluating their usefulness, and finally exploiting resulting models and predictions to increase vehicle uptime and lower maintenance costs.

In the second project we will be working on methods for analyzing electrical energy consumption data collected from smart meters and other intelligent sensors distributed on the grid.

The overall goal of the research is to investigate both data-driven and knowledge-driven methods for predicting critical failures (blackouts) and understanding the needs for routine maintenance, as well as detecting deviations in usage and operations in order to support high quality, sustainable services for the future.



For more information about the positions please contact Sławomir Nowaczyk (slanow@hh.se) and Anita Sant'Anna (anisan@hh.se), or visit <http://islab.hh.se/OpenPositions>

The deadline for applications is **31st of December 2013**. Both PhD positions are fully funded for 4 or 5 years, with full employment benefits and an initial salary of 24000 SEK.