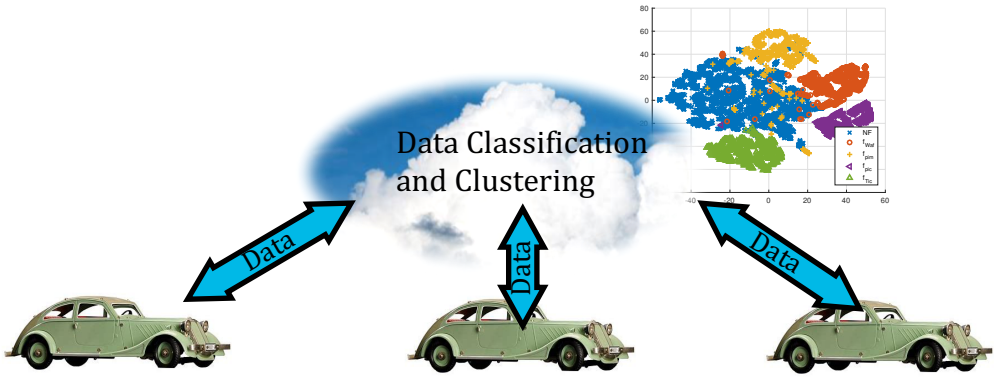
# Master Thesis Proposal

## Semi-supervised Data Clustering of Automotive Fault Data

Machine learning and data-driven classification have become more and more important thanks to the access to large amount of training data. In fault diagnosis applications the objective is to monitor the system operation and detect and classify faulty behavior. However, access to data where the actual fault and fault size are known is limited and data-driven methods can be used to estimate this information based on known fault cases.




This master thesis project is conducted in collaboration with Volvo Cars and the objective is to perform a literature study and develop a method to classify and cluster data from unknown fault scenarios based on data from known fault scenarios, often called semi-supervised classification. The master thesis project will use (and collect) real data from an engine available in the vehicular systems lab.

We are looking for students who are interested in learning more about machine learning and pattern analysis and work with problems with high industrial relevance.

If you are interested or have questions, please feel free to mail me:
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or come by my office in the vehicular systems corridor (B-building behind Café Java).


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