Diploma Thesis Assignment

Student: Bc. Michael Holuša

Study Programme: N2647 Information and Communication Technology
Study Branch: 2612T025 Computer Science and Technology
Title: Sběr a vyhodnocování dat z elektronických systémů vozidel
Preaggregation and Analysis of the Vehicle Control Unit Data

Description:
Currently a vast amount of sensors are integrated in all types of cars. An ongoing project at Volkswagen Group Research is working to put the data generated within the car systems into a more general use, for example to provide better traffic information or to detect potentially dangerous situations. The research project is using an in car platform to extract data from the vehicle bus (CAN) and send this data to a server platform. In the next step, a statistical analysis of the data and the visualization of the result on a map should be done.

2. Data gathering from the on-board units. (Framework development).
3. Selection and development of application. (Event generators).
4. Data preaggregation and implementation of selected event generators.
5. Analysis, testing and visualization of retrieved data.

References:

Extent and terms of a thesis are specified in directions for its elaboration that are opened to the public on the web sites of the faculty.

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