

Topics for student presentations:

1. Combination of sensory and emotional perception and its effect at perception of design of GUI. (Reserved: Miroslav Krnáč)
2. Ways of realization of communication systems without visual or audio stimuli (or color) (Reserved: Michal Růžička)
3. Different efficiency tactile systems based on most sensitive body regions.
4. Artificial senses systems (i.e. Artificial vision system, how senses are simulated or realized in robotics) (Reserved: Jakub Culek)
5. Touch screen and gestures for operation of in-vehicle systems (can be taken as separate topics) (Reserved - gestures: Posekaný Lukáš)
6. Icons in design of GUI for in-vehicle systems (Booked: Štefl Jan)
7. Eye measures for assessment of GUI (graphical user interface) (Booked: Zuzana Purkrábková)
8. Vehicle/simulator data analysis for assessment of in-vehicle system.
9. Subjective evaluation of HMI (expert evaluation, observer evaluation, task load index, various scales etc.)
10. Mentální zátěž člověka při řízení. (František Kekula).
11. Brain-computer interface. (Jan Soldát)

It is recommended that you discuss your presentation contents in advance. See some guidelines for your talk on the next page.

Some guidelines for individual presentation.

The structure of the presentation should include:

1. Introduction to the topic:

- brief formulation of the problem, some attractive statistics to make accent on the problem

2. Problem background

- Some history of development of the topic. Rough example: you are presenting about modern traffic lights that are smart system that uses traffic data for switching regimes and in your background you tell about how people used to step out of the car to turn the traffic light green so that they could cross the intersection

3. Current state of the issue

- Your actual topic description with practical examples, usage

4. Some interesting facts (could be non-standard or futuristic)

- (for example, in some country they use three shades of grey in traffic light instead of red, yellow green)

5. Some conclusions

Don't make your presentation out of text only. Instead, use figures, numbers, statistics, graphics.

Don't make too funny/joke-like presentations.

Your talk shall be based on some research with several sources (use such databases as ScienceDirect, Scopus, ieeexplore, world organizations studying the issue you are talking about, relevant standards, world/European statistics etc.)

If you have all, or most these covered, you should be fine.