

Information about the course Simulators and simulator usage (729A63), 6 hp

Date: 5 September 2014

Hi!

Welcome to the first class **Wednesday 10 September 2014 10.15 to 12** at VTI room: Boren. Most of you confirmed the date. At the first meeting, we will go through the course syllabus and make a preliminary time plan. The course consists of two parts, seminars and a project. Seminars are mandatory. Each of you will read an article/book chapter, which you will orally present and critically comment. In case you cannot make it, you have to do an extra task i.e. read and comment an extra paper (of your own choice). At the first occasion, we will also form project groups 2-3 per group. The project will require substantial time of the course. Thus, it is vital that you start the planning of your project as soon as possible. The project will be a smaller (but more or less complete) simulator study in our small-scale simulator. You will have to plan, carry out, report and orally present your project. Furthermore, you should read and comment another group's report. I will hand out some material at the first occasion that are vital for the project. I hope that you know where VTI is located but if not you can find more information here <http://www.vti.se/sv/om-vti/kontakta-vti/>

The following will be addressed:

- Introduction to the course and practical matters concerning VTI premises
- Visit to the simulator
- Driving as cognitive task – a personal view of driving - Björn
- Discussions with focus on three introductory papers (you find them here <http://www.ida.liu.se/~729A63/info/courseinfo.sv.shtml>)
 - Driving simulators as research tools in traffic psychology (Carsten & Jamson (2011))
 - A short history of driving simulation (Allen Rosenthal & Cook (2011))
 - The future driving simulation (Hancock & Sheridan (2011))
- Planning, dates, grouping, and next seminar 3 papers to be discussed.

Much of the literature will be from Handbook of Driving Simulation for Engineering, Medicine, and Psychology (see <http://www.crcpress.com/product/isbn/9781420061000>) and Handbook of Traffic Psychology (see <http://www.sciencedirect.com/science/book/9780123819840>). We might also select some papers/articles based on studies made here at VTI or you might have some suggestions of your own.

Instructions for the first meeting:

- All read all three papers
- No presentation – I will assume you have read and we focus on the discussion
- Experimental design, validity and simulator sickness are topics mentioned in the papers but we will discuss these matters later separately (so no need to focus too much on this now!).

I wish you all a nice weekend.

Björn

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