

Homework 5

Experiments in Computer Science

Your answer should be less than one page. We are looking forward to exciting and creative experiments and we will work with some of them in the seminar.

1. Suggest an experiment in CS! It may concern any aspect of CS, such as programming, hardware, education or algorithms. The reason for your suggestion may be its importance or just your curiosity. Name your experiment and let it be the title of your homework.
2. Before conducting the actual experiment, some preparation would probably be appropriate, such as studying the literature or consulting experts. What would be needed in your experiment?
3. A scientific experiment should be used to verify or falsify some hypothesis or sometimes many hypotheses. Formulate them for your experiment. Note that an experiment does not test the hypothesis itself but some outcome that can be deduced from it (HD-method).
4. *Should Computer Scientists Experiment More?* by W. Tichy (see link on “Seminars and Homework page”) lists sixteen objections to experimenting. Read the paper and see if any of the objections applies to your experiment.

Handing in your solution

Please save your solution as a pdf file and hand it in on the peergrade page. Do not write your name in the pdf file.

Peer grading

You will be asked to review the homework of three other students. Your own solution will also be checked in this way.

Your teacher will read your submission and report the result in rapp.