

# Exam guide

AE4M33RZN

winter semester 2012/2013

The exam consists of a *written* and an *oral* part. It is possible to gain 40 points. 20 pts. is the minimum for a pass. The written exam contains *multiple choice questions* and *short answer* questions.

## Multiple choice questions

Multiple choice questions consist of one question with multiple statements. Each question can have multiple correct statements (even all of them can be correct or incorrect). The response is indicated as follows:

- Statement I consider incorrect.
- Statement I consider correct.
- Statement I had considered correct, but then I changed my mind.
- Statement I had considered correct, but then I changed my mind twice.

**Points:** You obtain +1 point for a correct answer or -1 for an incorrect one.

A potentially negative score from the multiple choice questions are nullified and does not affect the score from the short answer questions.

## Short answer questions

Short answer questions consist of a short prompt, which is answered by a few sentences, drawing a picture or performing a computation. The maximum number of points is stated at the end of each question. We suggest to follow these guidelines:

- **Relevance:** Answer only the question you were asked. For example, if the question demands the pseudocode of the bubble-sort algorithm and you provide a  $P \neq NP$  proof, you achieve a worldwide glory, but zero points.
- **Aptness:** Try to be concise and write only the relevant. When asked about Pythagorean theorem, a sufficient answer is: "If the triangle had a right angle

and you made a square on each side, then the biggest square had the same area as the other two squares together." You do not need to use all the provided space.

- **Accurate vocabulary:** Use well-established terms. You do not have to write "the number on a ruler aligned with two points on a plane" if you mean "Euclidean distance".
- **Short solution:** Usually, most computations are doable within 5-10 lines. There is no need to write " $\dots = a - (b + c) = a - b - c = \dots$ ", because we trust you about the knowledge of basic algebra.

## Exam process

You will be given 120 minutes to finish the exam, starting with the invigilator's signal. Feel free to hand in the exam papers earlier, but please do not do so during the last 15 minutes of the designated time. Other students, rushing to finish their answers, might be disturbed.

**Oral exam.** When your score from the written exam is sufficient for the grade E and it is 2 points or less below the score of a better grade, you can ask for an oral reexamination, which occurs after announcing the results of the written exam.

If you demonstrate a lack of knowledge in a substantial manner, the grade from the written exam can be made worse.

## Evaluation

The final grade is determined by the sum of tutorial points and exam points according to this table:

<b>Grade</b>	A	B	C	D	E	F
<b>Points</b>	100-90	89-80	79-70	69-60	59-50	49-0