

Architecture of Software Systems 2020/21

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Exam – February 13, 2021

At the exam, you may use any sources. However, you must write your exam on your own. Communicating with persons other than the examiner is not allowed.

To write your exam, you may use whatever text editor you wish. If you need to draw a diagram, you can do so in Enterprise Architect, but you can do so also in tools for quick diagram sketching, such as UMLet. Afterwards, create one PDF file and submit it to the corresponding submission site in AIS by 12.35.

- 1. (8 b)** How are design patterns composed with each other based on their hierarchical order within the pattern language they belong to? Introduce an example.
- 2. (8 b)** How is refactoring related to design patterns? Introduce your own hypothetical example.
- 3. (8 b)** What role does the identification of common and variable features play in software development based on software product lines? Support your explanation by your own hypothetical example.
- 4. (6 b)** What organizational pattern is your favorite one and why? Introduce your own hypothetical situation in which this pattern helps.