



TK1: Distributed Systems - Programming & Algorithms

Prof. Dr. Max Mühlhäuser
Dr. Immanuel Schweizer

Jens Heuschkel, MSc.

Michael Stein, MSc.

TELEKOOPERATION
Fachbereich Informatik
Hochschulstr. 10
64289 Darmstadt

1st Exercise

Submission Date: 11.11.2015

By handing in a solution you confirm that you are the exclusive author(s) of all the materials. Additional information can be found here: <https://www.informatik.tu-darmstadt.de/de/sonstiges/plagiarismus/>

Task 1.1: Basic Problems (3 P.)

Describe the three basic problems of distributed systems.

Task 1.2: Abstraction Levels (2 P.)

Describe the four abstraction levels of distributed systems.

Task 1.3: Transparency (1 P.)

Define the term „transparency“. Furthermore, name and describe four real world examples of different types of transparency.

Task 1.4: “Programming” Abstractions (4 P.)

Describe the four principles of programming abstractions wrt. Distributed software development.