

Homework Sheet 1

VU Numerical Algorithms, SoSe 2018

due date: 23.4.2018, 18:00

- Please submit an anonymized version of your report without your name or your Matrikelnummer appearing in the document.

Prerequisites

1. Basics:

- No global variables allowed.
- Pay attention to the interface definitions (i.e., use the specified terms! In/output parameters must be in the specified order!)
- Your routines should always check the number and types of input arguments.
- Do not plot results in predefined routines! Plot results in scripts or self defined routines only.
- x (Produce separate routines (i. e., for Part I: preparation of the input matrices, *LU* decomposition). Write modular code! Use consistent interfaces for your routines.)

2. Submission:

- Upload a single zip archive with all your source code files and your report (as a single PDF file named *report.pdf* with all plots and discussions of results) on the course page in Moodle.
- Name your archive **a<matriculation number>.zip** (e.g. *a01234567.zip*)
- Directories in the archive are not allowed.
- A complete submission should include the following files:
 - a) Routines: *accuracy.m*, *linSolve.m*, *plu.m*, *solveL.m*, *solveU.m*, self defined routines (optional)
 - b) Scripts: *part1.m*, *part2.m*, *part3.m*
 - c) Documentation: *report.pdf*