Exercises to the class

Optimization II

https://www.mathematik.uni-konstanz.de/volkwein/teaching/

Guidelines

The exercises will be organized as follows:

▶ There will be 12 exercise sheets in total, each of them is worth 15 points in total and consists of theory and numerics.

▶ The final grade for the course will be determined by your grades in an oral exam at the end of the class and your grade for the exercises. Half of the maximum of all possible points have to be achieved in total to be admitted to the oral exam.

▶ If your grade for the exercises surpasses your exam grade, your final grade will be computed as the sum of $\frac{1}{3}$ of your grade in the exercises and $\frac{2}{3}$ of your exam grade. If your exam grade is higher than your grade in the exercises, your final grade is the exam grade.

(Essentially, you have the opportunity to improve your exam grade with a better grade on the exercises. We suggest you take it.)

▶ For the exercises, the following table gives the grade:

<table>
<thead>
<tr>
<th>Points</th>
<th>≤ 90</th>
<th>90</th>
<th>98</th>
<th>106</th>
<th>114</th>
<th>122</th>
<th>130</th>
<th>138</th>
<th>146</th>
<th>154</th>
<th>≥ 162</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grade</td>
<td>5.0</td>
<td>4.0</td>
<td>3.7</td>
<td>3.3</td>
<td>3.0</td>
<td>2.7</td>
<td>2.3</td>
<td>2.0</td>
<td>1.7</td>
<td>1.3</td>
<td>1.0</td>
</tr>
</tbody>
</table>

▶ The written exercises should be handed in weekly before the lecture on Tuesday.

Please adhere to the following guidelines for programming exercises:

▶ Programs should be written in teams of two. If the total number of participants is odd, there may be a team with one or three people.

▶ Each participant should be able to explain their code.

▶ Please write the names and e-mail addresses in each main file.

▶ Programs should be written and well-documented in English. You may use either Matlab or Python.

▶ Only running programs are considered for grading.

▶ If a report is asked for on an exercise sheet, then the report should document and explain the mathematical behavior, not explain the implementation.

▶ Send your programs to both georg.mueller@uni.kn before the corresponding deadlines.

The required materials and exercise sheets will be distributed via e-mail.