**Instructions for the homework assignments**

There are two homework assignments (HW), Homework assignment I (HW1) and II (HW2). The HWs are non-compulsory, i.e. you do not have to do them. However, solutions handed in before the corresponding deadline will be corrected and graded. HW1 and HW2 give up to 10 HW points each, and the total HW points obtained are transformed to bonus points on the exam, according to the following table:

<table>
<thead>
<tr>
<th>Bonus pts</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
</tr>
</thead>
<tbody>
<tr>
<td>HW pts</td>
<td>≥4</td>
<td>≥6</td>
<td>≥8</td>
<td>≥10</td>
<td>≥12</td>
<td>≥14</td>
<td>≥16</td>
</tr>
</tbody>
</table>

The bonus points are exchangeable for the last problem of the exam (which corresponds to 7 points of the total 50 points on the exam).

Deadlines for the HWs are:

- HW1: Thursday April 13, at 15.00
- HW2: Thursday May 18, at 15.00

The deadlines are sharp! The solutions should be handed in on paper in the hand in box, in the corridor on the 2nd floor of building 2 at ITC/Polacksbacken. (For those unable to hand in solutions on paper it will be possible to submit solutions via the Student portal.)

The homework assignments are available as pdf:s on the course homepage, www.it.uu.se/edu/course/homepage/regtek2/vt17, via the link ‘General information’.

**Important!**

The HWs are to be solved individually! That means that you should produce your own, unique solution. It is allowed to discuss the HWs with other students, but you should be able to defend and to explain your own solution.

Solutions

- which are identical, or
- with more than one name

will be disqualified!

It is allowed and recommended to use Matlab as an aid when solving the HWs. Then please hand in plots and code, showing how Matlab has been used, as complements to your solution. However, the solutions must consist of a descriptive part, in which text, equations and derivations show how your results and findings have been obtained. *This descriptive part must be individual and unique!* 
