Topic

Event

Author Supervision: Supervisor

SS 2014

Abstract

Write a short abstract. Do not give to much details here, but arouse the readers interest. A nice opportunity to comment the text is given by the following: Especially if you write in german, you sometimes need to specify the hyphanation, as e.g. for the word thisisaverylongwordwhosehyphanationmustbedefined.

1 Introduction

Begin your paper with an introduction into your topic.

1.1 hallo

tschuess.

2 Preliminaries

Introduces terms used in your topic by definitions. Furthermore, it can introduce theorems on which parts of your topic base. Hint: Use paragraphs to structure your text. This is the first paragraph.

And this is the second paragraph. By the way: Do not use abbreviations as don't, it's, or can't. In Figure 1 you can see an example of a picture embedded in a figure. The picture is created using the TikZ-Library (cf. TikZ-Manual). In Table 1 you can see an example for a table.

Definition 2.1 (Name of the term) This is how you define a term.

Theorem 2.1 (Name of the theorem) This is how you write a theorem. Do not forget to prove the theorem.

Proof 2.1 Here you write the proof of the theorem.

In the next lines you can see some examples formulas and other constructs, which are useful in the math mode. A very useful webpage to find symbols and the packages to include is Detexify². $\Sigma, \sigma, \ldots, \varphi, \xi$, LATEXYou can use the math mode in the text, e.g. $1 \neq 0$, or write it in a whole line:

$$\begin{vmatrix} a_{1,1} & \dots & a_{1,n} \\ \vdots & \vdots & \\ a_{n,1} & \dots & a_{n,n} \end{vmatrix} = \begin{cases} \sum_{\sigma \in S_n} \left(\operatorname{sgn}(\sigma) \prod_{i=1}^n a_{i,\sigma(i)} \right) & \text{, if } True \\ \frac{42}{1} & \text{, otherwise} \end{cases}$$



Figure 1: A digraph on the left and a directed tree on the right.

Table 1 This a a table.

| | align left | centered | align right |
|-------|------------|----------|-------------|
| row 1 | box 1.1 | box 1.2 | box 1.3 |
| row 2 | box 2.1 | | box 2.2 |
| row 2 | box 2 | | |

3 Topic

This section concerns the main topic. In the following you can see a small illustration of how to use itemizings and enumerations.

- Point 1.
- Point 2.
- 1. Point 1.
- 2. Point 2.
 - I) Point 1.
 - II) Point 2.
- 1. Point 1.
- 2. Point 2.

Term one: Description of term one.

Term two: Description of term two.

In Algorithm 1 you can see how we define an algorithm.

3.1 Example

Give an example to illustrate the idea of your topic. Import images in the following way. Store the images in a separate folder as precasted in our template.

4 Conclusion

Give a conclusion on your topic. Give a few sentences to summarize the topic. If possible, point out the quality of the result and give a small prospect of subsequent works.

Algorithm 1 Describe the purpose of the algorithm. For more information see the newalg-Manual.

```
VOID METHOD ( typeA argumentA, typeB argumentB )
     write the algorithm in pseudocode
     it should not go into detail, but display main idea
 3
     however, keep being consistent
    x \leftarrow 1 (this is how to assign a value to a variable)
 5
    while a condition being True or False
 6
    do do something
 7
        and something else
 8
 9
    if a condition being True or False
10
      then point 1
11
12
      else if another condition
13
               then point 2
14
15
      else point 3
            return True
16
```

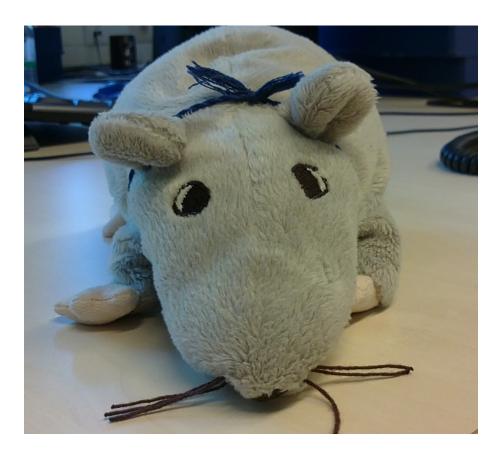


Figure 2: Proseminar supervisor's pet.