Seminar
Trends in Model Checking
TOPIC

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1 Introduction

Begin your paper with an introduction to your topic. Do not forget references such as [**?**].

1.1 Hello

world.

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 Ti*k*Z Library. Figure 2 shows an example of a plot created with the Pgfplots package. 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

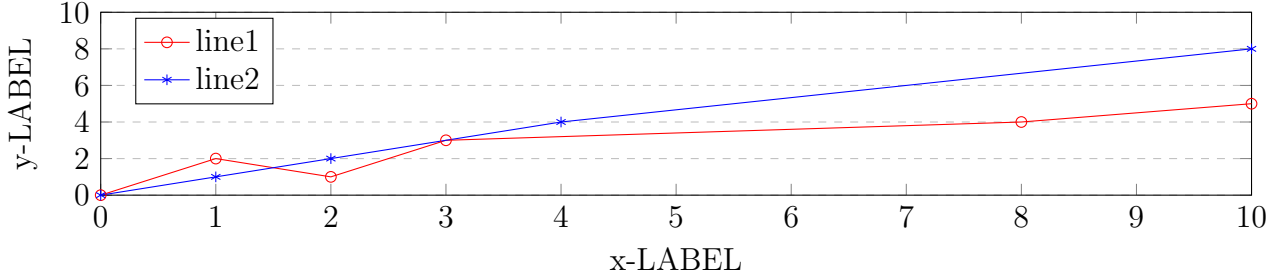Figure 1: A digraph on the left and a directed tree on the right.

Figure 2: A plot.

is Detexify[2]. $\Sigma, \sigma, \ldots, \varphi, \xi$ You can use the math mode in the text, e.g. $1 \neq 0$, or write it in a whole line:

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

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.
Data: this text
Result: how to write algorithm with LaTeX2e
initialization;
while *not at end of this document* **do**
    read current;
    if *understand* **then**
        go to next section;
        current section becomes this one;
    else
        go back to the beginning of current section;
    end
end

Algorithm 1: How to write algorithms

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.

References

[1] C. Baier and J.-P. Katoen. *Principles of Model Checking.* The MIT Press, 2008.