# Paper Title

Firstname Lastname and Firstname Lastname

Institute

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**Keywords:** keyword1, keyword2

# 1 Introduction

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Nulla malesuada porttitor diam. Donec felis erat, congue non, volutpat at, tincidunt tristique, libero. Vivamus viverra fermentum felis. Donec nonummy

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pellentesque ante. Phasellus adipiscing semper elit. Proin fermentum massa ac quam. Sed diam turpis, molestie vitae, placerat a, molestie nec, leo. Maecenas lacinia. Nam ipsum ligula, eleifend at, accumsan nec, suscipit a, ipsum. Morbi blandit ligula feugiat magna. Nunc eleifend consequat lorem. Sed lacinia nulla vitae enim. Pellentesque tincidunt purus vel magna. Integer non enim. Praesent euismod nunc eu purus. Donec bibendum quam in tellus. Nullam cursus pulvinar lectus. Do

The remainder of the paper starts with a presentation of related work (Sect. 2). It is followed by a presentation of hints on LATEX (Sect. 3). Finally, a conclusion is drawn and outlook on future work is made (Sect. 4).

### 2 Related Work

Winery [2] is a graphical modeling tool. The whole idea of TOSCA is explained by Binz et al. [1].

### 3 LaTeX Hints

This section contains hints on writing LaTeX. It focuses on minimal examples, which can be directly adapted to the content

### 3.1 Handling of paragraphs

One sentence per line. This rule is important for the usage of version control systems. A new line is generated with a blank line. As you would do in Word: New paragraphs are generated by pressing enter. In LaTeX, this does not lead to a new paragraph as LaTeX joins subsequent lines. In case you want a new paragraph, just press enter twice (!). This leads to an empty line. In word, there is the functionality to press shift and enter. This leads to a hard line break. The text starts at the beginning of a new line. In LaTeX, you can do that by using two backslashes (\\).

This is rarely used.

Please do *not* use two backslashes for new paragraphs. For instance, this sentence belongs to the same paragraph, whereas the last one started a new one. A long motivation for that is provided at http://loopspace.mathforge.org/HowDidIDoThat/TeX/VCS/#section.3.

Paper Title

```
Corresponding LATEX code of paper.tex
_{\rm 488} One sentence per line.
489 This rule is important for the usage of version control systems.
_{\rm 490}\, A new line is generated with a blank line.
491 As you would do in Word:
492 New paragraphs are generated by pressing enter.
_{\rm 493} In LaTeX, this does not lead to a new paragraph as LaTeX joins
        subsequent lines.
494 In case you want a new paragraph, just press enter twice (!).
495 This leads to an empty line.
_{
m 496} In word, there is the functionality to press shift and enter.
   This leads to a hard line break.
    The text starts at the beginning of a new line.
499 In LaTeX, you can do that by using two backslashes
        (\textbackslash\textbackslash).\\
500 This is rarely used.
502 Please do \textit{not} use two backslashes for new paragraphs.
503 For instance, this sentence belongs to the same paragraph,
        whereas the last one started a new one.
_{504}\, A long motivation for that is provided at
        \url{http://loopspace.mathforge.org/HowDidIDoThat/TeX/VCS/#section.3}.
```

### 3.2 Notes separated from the text

The package mindflow enables writing down notes and annotations in a way so that they are separated from the main text.

This is a small note.

```
Corresponding LATEX code of paper.tex

| 512 \begin{mindflow} |
| 513 This is a small note. |
| 514 \end{mindflow}
```

### 3.3 Hyphenation

LATEX automatically hyphenates words. When using microtype, there should be less hypnetations than in other settings. It might be necessary to tweak the hyphenations nevertheless. Here are some hints:

In case you write "application-specific", then the word will only be hyphenated at the dash. You can also write applica\allowbreak{}tion-specific (result: application-specific), but this is much more effort.

### 4 Firstname Lastname and Firstname Lastname

You can now write words containing hyphens which are hyphenated at other places in the word. For instance, application"=specific gets application"=specific. This is enabled by an additional configuration of the babel package.

# Corresponding LATEX code of paper.tex 525 In case you write \enquote{application-specific}, then the word will only be hyphenated at the dash. 526 You can also write \verb1applica\allowbreak{}tion-specific1 (result: applica\allowbreak{}tion-specific), but this is much more effort. 527 528 You can now write words containing hyphens which are hyphenated at other places in the word. 529 For instance, \verb1application"=specific1 gets application"=specific. 530 This is enabled by an additional configuration of the babel package.

# 3.4 Typesetting Units

Numbers can written plain text (such as 100), by using the siunitx package like that:  $100 \frac{\text{km}}{\text{h}}$ , or by using plain LaTeX (and math mode):  $100 \frac{\text{km}}{h}$ .

```
Corresponding LATEX code of paper.tex

536 Numbers can written plain text (such as 100), by using the siunitx package like that:
537 \SI{100}{\km\per\hour},
538 or by using plain \LaTeX{} (and math mode):
539 $100 \frac{\mathit{km}}{h}$.
```

5% of  $10 \,\mathrm{kg}$ 

```
Corresponding IATEX code of paper.tex

543 \SI{5}{\percent} of \SI{10}{kg}
```

Numbers are automatically grouped: 123456.

```
Corresponding IATEX code of paper.tex

547 Numbers are automatically grouped: \num{123456}.
```

# 3.5 Surrounding Text by Quotes

Please use the "enquote command" to quote something. Quoting with "quote" or "quote" also works.

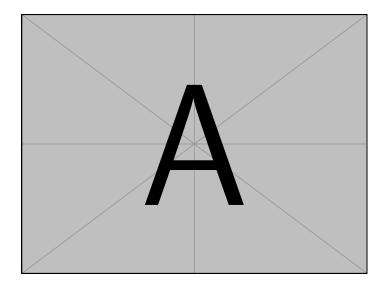
```
Corresponding IATEX code of paper.tex

553 Please use the \enquote{enquote command} to quote something.

554 Quoting with "`quote"' or ``quote'' also works.
```

# 3.6 Cleveref examples

Cleveref demonstration: Cref at beginning of sentence, cref in all other cases.



 ${\bf Fig.\,1.}$  Example figure for cref demo

Headin	gl Heading2	
One	Two	
Thee	Four	

Table 1. Example table for cref demo

Figure 1 shows a simple fact, although Fig. 1 could also show something else.

### 6 Firstname Lastname and Firstname Lastname

Table 1 shows a simple fact, although Table 1 could also show something else. Section 3.6 shows a simple fact, although Sect. 3.6 could also show something else.

```
Corresponding LATEX code of paper.tex

585 \Cref{fig:ex:cref} shows a simple fact, although \cref{fig:ex:cref} could also show something else.

586 
587 \Cref{tab:ex:cref} shows a simple fact, although \cref{tab:ex:cref} could also show something else.

588 
589 \Cref{sec:ex:cref} shows a simple fact, although \cref{sec:ex:cref} could also show something else.
```

# 3.7 Figures

Figure 2 shows something interesting.

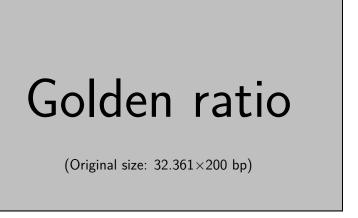


Fig. 2. Simple Figure. Based on Scharrer [3].

### 

One can also have pictures floating inside text:

Hello, here is some text without a meaning. This text should show what a printed text will look like at this place.  $\sin^2(\alpha) + \cos^2(\beta) = 1$ . If you read this text, you will get no information  $E = mc^2$ . Really? Is there no information? Is there a difference between this text and some nonsense like "Huardest gefburn"? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look.



Fig. 3. A floating figure

 $\sqrt[n]{a} \cdot \sqrt[n]{b} = \sqrt[n]{ab}$ . This text should contain all letters of the alphabet and it should be written in of the original language.  $\frac{\sqrt[n]{a}}{\sqrt[n]{b}} = \sqrt[n]{\frac{a}{b}}$ . There is no need for special content, but the length of words should match the language.  $a\sqrt[n]{b} = \sqrt[n]{a^nb}$ . Hello, here is some text without a meaning.  $d\Omega = \sin\vartheta d\vartheta d\varphi$ . This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like "Huardest gefburn"? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look.  $\sin^2(\alpha) + \cos^2(\beta) = 1$ . This text should contain all letters of the alphabet and it should be written in of the original language  $E = mc^2$ . There is no need for special content, but the length of words should match the language.  $\sqrt[n]{a} \cdot \sqrt[n]{b} = \sqrt[n]{ab}$ .

# Corresponding LATEX code of paper.tex

- 609 \begin{floatingfigure}{.33\linewidth}
- 610 \includegraphics[width=.29\linewidth]{example-image-a}
- 611 \caption{A floating figure}
- 612 \end{floatingfigure}
- 613 \blindtext[2]

### 3.8 Sub Figures

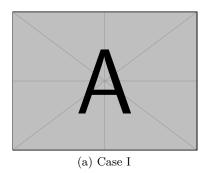
An example of two sub figures is shown in Fig. 4.

### Corresponding LATEX code of paper.tex \begin{figure}[!b] \centering \subfloat[Case I]{\includegraphics[width=.4\linewidth]{example-image-a}% \label{fig:first\_case}} 625 $\hfil$ 626 \subfloat[Case 627 II]{\includegraphics[width=.4\linewidth]{example-image-b}% \label{fig:second\_case}} 628 \caption{Example figure with two sub figures.} 629 \label{fig:two\_sub\_figures} 630 \end{figure}

# 3.9 Tables

Table 2. Simple Table

Heading	Heading2
One	Two
Thee	Four



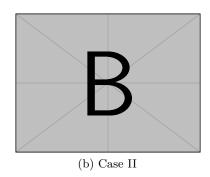


Fig. 4. Example figure with two sub figures.

### Corresponding LATEX code of paper.tex 637 \begin{table} \caption{Simple Table} 638 \label{tab:simple} \centering 640 \begin{tabular}{11} 641 \toprule 642 Heading1 & Heading2 \\ 643 \midrule 644 One & Two 645 646 Thee & Four 647 \bottomrule $\ensuremath{\mbox{\mbox{end}\{\mbox{tabular}\}}}$ $_{649}$ \end{table}

Table 3. Table with diagonal line

Diag Column Head II Diag Column Head I	Second	Third
	foo	bar

```
Corresponding LATEX code of paper.tex
% Source: https://tex.stackexchange.com/a/468994/9075
654 \begin{table}
655 \caption{Table with diagonal line}
656 \label{tab:diag}
   \begin{center}
657
658 \begin{tabular}{||1|c|c|}
659 \hline
   \diagbox[width=10em]{Diag\\Column Head I}{Diag Column\\Head II}
        & Second & Third \\
661 \hline
662 & foo & bar \\
663 \hline
664 \end{tabular}
665 \end{center}
666 \end{table}
```

```
1 listing name="example">
2 Floating
3 </listing>
```

Listing 1.2. Example XML listing – placed as floating figure

# 3.10 Source Code

Listing 1.1 shows source code written in XML. Line 2 contains a comment.

 ${\bf Listing}$  1.1. Example XML Listing

```
Corresponding \LaTeX code of paper.tex
    \Cref{lst:XML} shows source code written in XML.
674
    \Cref{line:comment} contains a comment.
_{676} \begin{lstlisting}[
     language=XML,
677
      caption={Example XML Listing},
678
     label={lst:XML}]
679
680 680 61isting name="example">
      <!-- comment --> (* \label{line:comment} *)
681
      <content>not interesting</content>
682
683 </listing>
684 \end{lstlisting}
```

One can also add  ${\tt float}$  as paramter to have the listing floating. Listing 1.2 shows the floating listing.

```
1 {
2 key: "value"
3 }
```

Listing 1.3. Example JSON listing – placed as floating figure

```
public class Hello {
    public static void main (String[] args) {
        System.out.println("Hello World!");
    }
}
```

Listing 1.4. Example Java listing

```
Corresponding LATEX code of paper.tex
   \begin{lstlisting}[
      % one can adjust spacing here if required
692
      % aboveskip=2.5\baselineskip,
693
     % belowskip=-.8\baselineskip,
694
     float,
695
     language=XML,
696
      caption={Example XML listing -- placed as floating figure},
697
     label={lst:flXML}]
699 clisting name="example">
    Floating
701 </listing>
   \end{lstlisting}
```

One can also typeset JSON as shown in Listing 1.3.

```
Corresponding LATEX code of paper.tex
    \begin{lstlisting}[
708
      float,
709
710
      language=json,
      \verb|caption={Example JSON listing -- placed as floating figure}|,\\
711
712
      label={lst:json}]
713
      key: "value"
714
    }
715
    \end{lstlisting}
716
```

Java is also possible as shown in Listing 1.4.

### Corresponding LATEX code of paper.tex $_{722} \ \ \textbf{begin\{lstlisting\}[}$ caption={Example Java listing}, label=lst:java, language=Java, 725 float] 726 $_{727}$ public class Hello { public static void main (String[] args) { 728 System.out.println("Hello World!"); 729 730 731 } \end{lstlisting}

### 3.11 Itemization

One can list items as follows:

```
- Item One
```

- Item Two

```
Corresponding LATEX code of paper.tex

740 \begin{itemize}
741 \item Item One
742 \item Item Two
743 \end{itemize}
```

One can enumerate items as follows:

- 1. Item One
- 2. Item Two

With paralist, one can even have all items typset after each other and have them clean in the tex document:

1. All these items... 2. ...appear in one line 3. This is enabled by the paralist package.

# 

# 3.12 Other Features

The words "workflow" and "dwarflike" can be copied from the PDF and pasted to a text file.

```
Corresponding LATEX code of paper.tex

770 The words \enquote{workflow} and \enquote{dwarflike} can be copied from the PDF and pasted to a text file.
```

The symbol for powerset is now correct:  $\mathcal{P}$  and not a Weierstrass p  $(\wp)$ .  $\mathcal{P}(1,2,3)$ 

```
Corresponding LATEX code of paper.tex

The symbol for powerset is now correct: $\powerset$ and not a Weierstrass p ($\wp$).

To Showerset({1,2,3})$
```

Brackets work as designed: <test> One can also input backquotes in verbatim text: `test`.

```
Corresponding LATEX code of paper.tex

780 Brackets work as designed:
781 <test>
782 One can also input backquotes in verbatim text: \verb|`test`|.
```

# 4 Conclusion and Outlook

Lorem ipsum dolor sit amet, consectetuer adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetuer id, vulputate a, magna. Donec vehicula augue eu neque. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Mauris ut leo. Cras viverra metus rhoncus sem. Nulla et lectus vestibulum urna fringilla ultrices. Phasellus eu tellus sit amet tortor

gravida placerat. Integer sapien est, iaculis in, pretium quis, viverra ac, nunc. Praesent eget sem vel leo ultrices bibendum. Aenean faucibus. Morbi dolor nulla, malesuada eu, pulvinar at, mollis ac, nulla. Curabitur auctor semper nulla. Donec varius orci eget risus. Duis nibh mi, congue eu, accumsan eleifend, sagittis quis, diam. Duis eget orci sit amet orci dignissim rutrum.

Nam dui ligula, fringilla a, euismod sodales, sollicitudin vel, wisi. Morbi auctor lorem non justo. Nam lacus libero, pretium at, lobortis vitae, ultricies et, tellus. Donec aliquet, tortor sed accumsan bibendum, erat ligula aliquet magna, vitae ornare odio metus a mi. Morbi ac orci et nisl hendrerit mollis. Suspendisse ut massa. Cras nec ante. Pellentesque a nulla. Cum sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Aliquam tincidunt urna. Nulla ullamcorper vestibulum turpis. Pellentesque cursus luctus mauris.

Acknowledgments Identification of funding sources and other support, and thanks to individuals and groups that assisted in the research and the preparation of the work should be included in an acknowledgment section, which is placed just before the reference section in your document [4].

In the bibliography, use \textsuperscript for "st", "nd", ...: E.g., "The 2<sup>nd</sup> conference on examples". When you use JabRef, you can use the clean up command to achieve that. See https://help.jabref.org/en/CleanupEntries for an overview of the cleanup functionality.

### References

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All links were last followed on October 5, 2020.