Latex Template and Instructions for Paper Submission

1 Introduction

Hello, here is some text without a meaning. 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. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language. A Latex class file called JTCAM.cls is used to nicely format accepted papers in JTCAM. The class uses the common environments and commands and has been thoroughly tested on a fairly recent Latex Distribution, that is Texlive 2016. Authors are asked to make sure that their Latex distribution is up-to-date. JTCAM.cls is primarily built upon the default article.cls. This class depends on the following packages for its proper functioning:

1. biblatex for citation processing
   (a) biblatex for citation processing
   (b) geometry for margin settings
   (c) graphicx for graphics inclusion
      i. biblatex for citation processing
      ii. geometry for margin settings

The abstract should be concise and informative. Please keep the following key sections in mind. Problem: What problem does this work attempt to solve? What is the scope of the project? What is the main argument/thesis/claim? Reason for writing: What is the importance of the research? What is the limitation of existing works on the same topic. Methodology: Which strategy has been implemented to tackle the issue raised previously? Results: Briefly discuss the findings in a general way. Implications: What changes should be implemented as a result of the findings of the work? How does this work add to the body of knowledge on the topic?

Each of the above sections should be addressed in no more than three sentences. Also, an abstract is a self-contained piece of text briefly exposing the proposed work and should not contain the following information:

- Do not refer extensively to other works. Citations should not be included.
- Do not add information not contained in the original work.
- Do not define terms.

Keywords

No more than 5 well-chosen uncapsalized and comma-separated keywords No more than 5 well-chosen uncapsalized and comma-separated keywords
iii. graphicx for graphics inclusion
   A. biblatex for citation processing
   B. geometry for margin settings
   C. graphicx for graphics inclusion

2. geometry for margin settings
3. graphicx for graphics inclusion
4. libertine optional font package
   (a) biblatex for citation processing
   (b) geometry for margin settings
   (c) graphicx for graphics inclusion
5. libertine optional font package
6. hyperref for hyperlinks
7. siunitx to nicely format units

All the above packages are part of any standard LATEX installation. Therefore, the users need not be bothered about downloading. All the above packages are part of any standard LATEX installation. Therefore, the users need not be bothered about downloading.

\[ \cos \pi = -1 \]  

Please properly think about your title, keeping in mind that this will be archived in the long term. Accordingly, terms referring to novelty should be avoided. Novelty is expected by default and the proposed will no longer be new in a year or more. You are also invited to suggest a running title, i.e., a short version of the actual title which will be indicated in the header of every page.

2 Compilation guidelines

Hello, here is some text without a meaning. 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. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

- \$ pdflatex main.tex 
- \$ makeindex main.nlo -s nomencl.ist -o main.nls 
- \$ pdflatex main.tex

2.1 compilation test

I’ve added a line: “it was also tested on Texlive 2014”
3 Important LaTeX packages

A few important LaTeX packages are used in the JTCAM template and it is highly recommended to consider them appropriately when submitting a paper to the journal:

Biblatex  To specify pages, chapters or other information use \parentcite[ch. 3]{ref} giving (Geiger et al. 2012, ch. 3).

TiKz/Pgfplots

siunitx See the userguide.

cleveref Sections section 4, equations (3) or theorems theorem 2 are cited classically.

4 Title section

The Title section is very important part of the paper as it shows important information like the title of the paper, the abstract and the list of authors. This is the part which will be looked at by most readers.

- biblatex for citation processing
  - biblatex for citation processing
  - geometry for margin settings
  - graphicx for graphics inclusion
- geometry for margin settings
- graphicx for graphics inclusion
- libertine optional font package
  - biblatex for citation processing
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4.1 Title

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4.2 Authors

List all authors in the order of your choice. Provide full first-names and family names. ORCID identifiers can be given as well. Remember to read the Ethics section on the website of the journal and more importantly the Authorship. We believe that Authorship is deserved only when active work has been done on the paper.

4.3 Affiliations

General basic information on the affiliations is expected. Name of the laboratory, name of the department, name of the institution, location [city, country]. An email address is expected only for the corresponding author.

4.4 Supplementary material

In order to promote transparency and reproducibility, as indicated in the Editorial Policy of the Journal, you are invited to share supplementary material (in the form of Research Software or Data sets, mainly) with the readers of your paper. Such supplementary material should be share on Open Repositories where long term archiving is guaranteed. Links to personal webpage is not
recommended since such webpages tend to have a short-term life. We recommend the use of Zenodo which provides a DOI link for all deposits, DOI link which can then be indicated in the JTCAM paper.

4.5 Abstract

General guidelines on how to write the abstract of your paper is indicated in the abstract of this document.

5 Main body text

Proceed as usual with the main text of your paper. We recommend a sectioning up to the “paragraph level, that is a total of four levels: “section, “subsection, “subsubsection and “paragraph. Ut enim ad minima veniam, quis nostrum exercitationem ullam corporis suscipit laboriosam, nisi ut aliquid ex ea commodi consequatur? Quis autem vel eum iure reprehenderit, qui in ea voluptate velit esse, quam nihil molestiae consequatur, vel illum, qui dolorem eum fugiat, quo voluptas nulla pariatur?

5.1 Mathematics

This is an equation

\[ l(\Lambda) = \sum_{i=1}^{n} \sum_{w=1}^{q} (z_{iw} \ln(\lambda_{iw}) - \lambda_{iw} - \ln(z_{iw})). \] (2)

All of them should be numbered even though not called within the text. We see equation numbering like page numbering. It might help the reader referring to precise portions of the paper. Also, Equations should be considered as parts of sentences, and punctuation should be considered accordingly, see the final period in Equation (7), or, if you want the name to be hyperlinked as well, see Equation 7, use the “autoref command of the “hyperref package.

Scalars, vectors and matrices are reported as lowercase, bold lowercase and bold uppercase letters, respectively:

\[(A - \lambda I)x = 0\] (3)

Equations could also be inline, as for instance \(e^{i\pi} = -1\). Inline equations should not affect the interline of the text. If the involved mathematical objects are too big (matrices and alike...), the corresponding math environment should be preferred.

\[(A - \lambda I)x = 0\]

\[(A - \lambda I)x = 0\]

It is sometimes fairly challenging to break an equation so that it fits within the provided space. Only in this very critical situation and even though it should be avoided if possible, very long equations can be moved in the left margin:

\[
\int_{-\infty}^{\infty} f(t) \exp(i\omega t)dt = \sum_{k=1}^{\infty} a_k \cos k\omega t + b_k \sin k\omega t + \sum_{k=1}^{\infty} a_k \cos k\omega t + b_k \sin k\omega t + \sum_{k=1}^{\infty} a_k \cos k\omega t + b_k \sin k\omega t \] (4)

or nicely broken up into distinct lines

\[
\int_{-\infty}^{\infty} f(t) \exp(i\omega t)dt = \sum_{k=1}^{\infty} a_k \cos k\omega t + b_k \sin k\omega t
\]

\[+ \sum_{k=1}^{\infty} a_k \cos k\omega t + b_k \sin k\omega t
\]

\[+ \sum_{k=1}^{\infty} a_k \cos k\omega t + b_k \sin k\omega t \] (5)
5.2 Nomenclature and glossary

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<table>
<thead>
<tr>
<th>Roman symbols</th>
<th>x_{cb}</th>
<th>Craig-Bampton DOF</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>\mathbf{A}</td>
<td>LCP coefficient matrix</td>
</tr>
<tr>
<td>B</td>
<td>\mathbf{B}</td>
<td>contact constraint matrix</td>
</tr>
<tr>
<td>I</td>
<td>\mathbf{I}</td>
<td>identity matrix</td>
</tr>
<tr>
<td>L</td>
<td>\mathbf{L}</td>
<td>linear operator</td>
</tr>
<tr>
<td>M,C,K</td>
<td>\mathbf{M}, \mathbf{C}, \mathbf{K}</td>
<td>mass, damping &amp; stiffness matrices</td>
</tr>
<tr>
<td>\tilde{\phi}</td>
<td>\tilde{\phi}</td>
<td>discrete Fourier transform</td>
</tr>
<tr>
<td>\tilde{x}, a</td>
<td>\tilde{x}, a</td>
<td>acceleration vectors</td>
</tr>
<tr>
<td>\Delta t</td>
<td>\Delta t</td>
<td>time step</td>
</tr>
<tr>
<td>\dot{x}, v</td>
<td>\dot{x}, v</td>
<td>velocity vectors</td>
</tr>
<tr>
<td>d</td>
<td>d</td>
<td>reference wall position</td>
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<tr>
<td>f</td>
<td>f</td>
<td>external forcing vector</td>
</tr>
<tr>
<td>g(x)</td>
<td>g(x)</td>
<td>gap function</td>
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<tr>
<td>q</td>
<td>q</td>
<td>underlying linear system solution</td>
</tr>
<tr>
<td>w,z</td>
<td>w,z</td>
<td>complementary vectors</td>
</tr>
<tr>
<td>x</td>
<td>x</td>
<td>displacement vector</td>
</tr>
<tr>
<td>x_b,x_i,x_c</td>
<td>x_b,x_i,x_c</td>
<td>boundary, internal &amp; contact DOF</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Greek symbols and maths</th>
<th>(\cdot)^T</th>
<th>transpose</th>
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</thead>
<tbody>
<tr>
<td>\Lambda</td>
<td>\Lambda</td>
<td>eigenvalue matrix</td>
</tr>
<tr>
<td>\lambda</td>
<td>\lambda</td>
<td>contact force vector</td>
</tr>
<tr>
<td>\Phi, \Psi, \Theta</td>
<td>\Phi, \Psi, \Theta</td>
<td>weighting functions</td>
</tr>
<tr>
<td>\Phi_{cb}</td>
<td>\Phi_{cb}</td>
<td>Craig-Bampton reduction matrix</td>
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<tr>
<td>\Phi_{is}</td>
<td>\Phi_{is}</td>
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<td>\omega</td>
<td>\omega</td>
<td>excitation frequency</td>
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<td>\omega_0</td>
<td>\omega_0</td>
<td>first natural frequency</td>
</tr>
<tr>
<td>\phi_i</td>
<td>\phi_i</td>
<td>shape function</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Abbreviations</th>
<th>BDS</th>
<th>backward difference scheme</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>CDS</td>
<td>central difference scheme</td>
</tr>
<tr>
<td></td>
<td>DFT</td>
<td>direct Fourier transform</td>
</tr>
<tr>
<td></td>
<td>DOF</td>
<td>degree of freedom</td>
</tr>
<tr>
<td></td>
<td>EO</td>
<td>engine order</td>
</tr>
<tr>
<td></td>
<td>EOM</td>
<td>equation of motion</td>
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<tr>
<td></td>
<td>ETM</td>
<td>explicit time-marching</td>
</tr>
<tr>
<td></td>
<td>FETD</td>
<td>finite element time discretization</td>
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<tr>
<td></td>
<td>HBM</td>
<td>harmonic balance method</td>
</tr>
<tr>
<td></td>
<td>HDHBM</td>
<td>high dimension HBM</td>
</tr>
<tr>
<td></td>
<td>IDFT</td>
<td>inverse direct Fourier transform</td>
</tr>
<tr>
<td></td>
<td>LCP</td>
<td>linear complementarity problem</td>
</tr>
<tr>
<td></td>
<td>LE</td>
<td>leading edge</td>
</tr>
<tr>
<td></td>
<td>MC</td>
<td>mid-chord</td>
</tr>
<tr>
<td></td>
<td>ODE</td>
<td>ordinary differential equation</td>
</tr>
<tr>
<td></td>
<td>TE</td>
<td>trailing edge</td>
</tr>
</tbody>
</table>

5.3 Floatings: figures and tables

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Figure 1 shows a normal figure, while figure 2 show one made up of two sub-figures. Figure 3 is an example of a landscaped figure. You can use the “subcaption–... command from the subcaption package to add captions for subfigures and subtables, but do not use the subfigure package: it is incompatible with this template.

Basic plots can be achieved via the pgfplots package. See the figures folder for examples or directly online

Authors should be aware that shrinking plots and diagrams with textual elements so that they can fit the provided space is to be avoided at all cost. It has the dramatic consequence of breaking the harmony of the document due to uneven font sizes. In the most extreme cases, the textual elements become unreadable. Instead, all graphs/plots/diagrams should be inserted in the main document with a unit scale where all fontsize should be set to 10pt. Hello, here is some text without a meaning. 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. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the
Figure 1
This is a figure caption. It can handle text citations Geiger et al. (2012) as well as parenthesis citations (Geiger et al. 2012) and common labels to sections section 4, Equation (3) or theorem 2.

<table>
<thead>
<tr>
<th>Speed</th>
<th>Driver</th>
<th>Car</th>
<th>Engine</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>407.447</td>
<td>Craig Breedlove</td>
<td>Spirit of America</td>
<td>GE J47</td>
<td>8/5/63</td>
</tr>
<tr>
<td>413.199</td>
<td>Tom Green</td>
<td>Wingfoot Express</td>
<td>WE J46</td>
<td>10/2/64</td>
</tr>
<tr>
<td>600.601</td>
<td>Craig Breedlove</td>
<td>Spirit of America, Sonic 1</td>
<td>GE J79</td>
<td>11/15/65</td>
</tr>
<tr>
<td>622.407</td>
<td>Gary Gabelich</td>
<td>Blue Flame Rocket</td>
<td>Rocket</td>
<td>10/23/70</td>
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<tr>
<td>633.468</td>
<td>Richard Noble</td>
<td>Thrust 2</td>
<td>RR RG 146</td>
<td>10/4/83</td>
</tr>
<tr>
<td>703.035</td>
<td>Andy Green</td>
<td>Thrust SSC</td>
<td>RR Spey</td>
<td>10/15/97</td>
</tr>
</tbody>
</table>

Table 1
Automobile Land Speed Records (GR 5-10)

language. Hello, here is some text without a meaning. 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. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language. Hello, here is some text without a meaning. 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. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language. Ut enim ad minima veniam, quis nostrum exercitationem ullam corporis suscipit laboriosam, nisi ut aliquid ex ea commodi consequatur? Quis autem vel eum iure reprehenderit, qui in ea voluptate velit esse, quam nihil molestiae consequatur, vel illum, qui dolorem eum fugiat, quo voluptas nulla pariatur? See Figure 2 Figure 2(a). Hello, here is some text without a meaning. 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. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language. Hello, here is some text without a meaning. 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!
Figure 2  This is a caption for the entire figure. It can handle subcaptions if needed: (a) This is a subfigure with concise title with concise title with concise title with concise title with concise title with concise title. (b) This is another subfigure with concise title

Figure 3  This is a very wide figure which goes into the margin if needed. This is a caption for the entire figure. This is a caption for the entire figure. This is a caption the entire figure. This is a caption for the entire figure

A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language. Hello, here is some text without a meaning. 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. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

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</table>

Table 2 Automobile Land Speed Records (GR 5-10)

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delectus, ut aut reiciendis voluptatibus maiores alias consequatur aut perferendis doloribus
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5.4 Algorithms

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look like at this place. If you read this text, you will get no information. Really? Is there no
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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. This text should contain all letters of the
alphabet and it should be written in of the original language. There is no need for special content,
but the length of words should match the language.

Theorems can easily be defined. Nam libero tempore, cum soluta nobis est eligendi optio,
cumque nihil impedit, quo minus id, quod maxime placeat, facere possimus, omnis voluptas
assumenda

Theorems can easily be defined. Nam libero tempore, cum soluta nobis est eligendi optio,
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assumenda

Theorems can easily be defined. Nam libero tempore, cum soluta nobis est eligendi optio,
cumque nihil impedit, quo minus id, quod maxime placeat, facere possimus, omnis voluptas
assumenda

\begin{algorithm}
\begin{algorithmic}
\If{$i \geq \text{maxval}$}
\State $i \leftarrow 0$
\Else
\If{$i + k \leq \text{maxval}$}
\State $i \leftarrow i + k$
\EndIf
\EndIf
\end{algorithmic}
\caption{Algorithm 1}
\end{algorithm}

This is an algorithm with a very long explanation a very long explanation a very long explanation a very
long explanation a very long explanation a very long explanation a very long explanation a very long
explanation a very long explanation

optio, cumque nihil impedit, quo minus id, quod maxime placeat, facere possimus, omnis voluptas
assumenda, see Algorithm 1

Theorems can easily be defined. Nam libero tempore, cum soluta nobis est eligendi optio,
cumque nihil impedit, quo minus id, quod maxime placeat, facere possimus, omnis voluptas
assumenda

5.5 Definition, Theorem and friends

Theorems can easily be defined. Nam libero tempore, cum soluta nobis est eligendi optio, cumque
nihil impedit, quo minus id, quod maxime placeat, facere possimus, omnis voluptas assumenda

Theorem 1

Let $f$ be a function whose derivative exists in every point, then $f$ is a continuous function. Let $f$
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function whose derivative exists in every point, then $f$ is a continuous function.

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quod maxime placeat, facere possimus, omnis voluptas assumenda

\footnote{Sed ut perspicatis, unde omnis iste natus error sit voluptatem accusantium doloremque
laudantium, totam rem aperiam eaque ipsa, quae ab illo inventore veritatis et quasi architecto
beatae vitae dicta sunt, explicabo.}

\footnote{Sed ut perspicatis, unde omnis iste natus error sit voluptatem accusantium doloremque
laudantium, totam rem aperiam eaque ipsa, quae ab illo inventore veritatis et quasi architecto
beatae vitae dicta sunt, explicabo.}
Require $n \geq 0$

Ensure $y = x^n$

1. $y \leftarrow 1$
2. $X \leftarrow x$
3. $N \leftarrow n$
4. while $N \neq 0$
5.   if $N$ is even then
6.     $X \leftarrow X \times X$
7.     $N \leftarrow \frac{N}{2}$
8.   else if $N$ is odd then
9.     $y \leftarrow y \times X$
10.    $N \leftarrow N - 1$
11. end if
12. end while

Algorithm 2

This is an algorithm with a very long explanation a very long explanation a very long explanation a very long explanation a very long explanation a very long explanation a very long explanation a very long explanation a very long explanation.

Theorem 2

Pythagorean theorem

This is a theorem about right triangles and can be summarised in the next equation

\[ x^2 + y^2 = z^2 \]

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Corollary 1

Pythagorean theorem

There’s no right rectangle whose sides measure 3cm, 4cm, and 6cm. There’s no right rectangle whose sides measure 3cm, 4cm, and 6cm. There’s no right rectangle whose sides measure 3cm, 4cm, and 6cm. There’s no right rectangle whose sides measure 3cm, 4cm, and 6cm. There’s no right rectangle whose sides measure 3cm, 4cm, and 6cm.

You can reference theorems such as 2 when a label is assigned. Nam libero tempore, cum soluta nobis est eligendi optio, cumque nihil impedit, quo minus id, quod maxime placeat, facere possimur, omnis voluptas assumenda. Nam libero tempore, cum soluta nobis est eligendi optio, cumque nihil impedit, quo minus id, quod maxime placeat, facere possimur, omnis voluptas assumenda. Nam libero tempore, cum soluta nobis est eligendi optio, cumque nihil impedit, quo minus id, quod maxime placeat, facere possimur, omnis voluptas assumenda. Nam libero tempore, cum soluta nobis est eligendi optio, cumque nihil impedit, quo minus id, quod maxime placeat, facere possimur, omnis voluptas assumenda.

Lemma 1

Pythagorean theorem

Given two line segments whose lengths are $a$ and $b$ respectively there is a real number $r$ such that $b = ra$.

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Remark
Unnumbered remark
This statement is true, I guess. Nam libero tempore, cum soluta nobis est eligendi optio, cumque nihil impedit, quo minus id, quod maxime placeat, facere possimus, omnis voluptas assumenda

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Remark 1
This statement is true, I guess. Nam libero tempore, cum soluta nobis est eligendi optio, cumque nihil impedit, quo minus id, quod maxime placeat, facere possimus, omnis voluptas assumenda

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Example 1
A very informative example
Let \( f \) be a function whose derivative exists in every point, then \( f \) is a continuous function. Let \( f \) be a function whose derivative exists in every point, then \( f \) is a continuous function. Let \( f \) be a function whose derivative exists in every point, then \( f \) is a continuous function.

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\[ l(\Lambda) = \sum_{i=1}^{n} \sum_{w=1}^{q} (z_{i,w} \ln(\lambda_{i,w}) - \lambda_{i,w} - \ln(z_{i,w})). \]  

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B.1 Title

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\[ l(\Lambda) = \sum_{i=1}^{n} \sum_{w=1}^{q} (z_{i,w} \ln(\lambda_{i,w}) - \lambda_{i,w} - \ln(z_{i,w})). \]  

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\(^3\) Sed ut perspiciatis, unde omnis iste natus error sit voluptatem accusantium doloremque laudantium, totam rem aperiam eaque ipsa, quae ab illo inventore veritatis et quasi architecto beatae vitae dicta sunt, explicabo.
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(Location of conference: city, country, Oct. 2017)

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**Authors’ contributions**  Author 1 carried out most of the study, performed numerical simulations, and drafted the manuscript. Author 2 helped with implementation and numerical issues. All authors developed the methodology, conceived of the study, and participated in its design, coordination, and critical review of the manuscript. All authors read and approved the final manuscript.

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