

Template for SC SciVis Showcase

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Abstract

Each submission should have an abstract that succinctly describes the video being showcased. The abstract should be no more than 250 words and will be copied into the online submission form. The abstract should use a 10pt Times Roman font. The abstract is placed in a single column that is 7.25 inches wide.

Keywords:

scientific visualization, high performance computing

1. Introduction

SC's Scientific Visualization & Data Analytics Showcase provides a forum for the year's most instrumental movies in HPC. Six finalists will compete for the Best Visualization Award, and each finalist will present his or her movie during a dedicated 15-minute presentation. Movies are judged by overall quality, how they illuminate science, and for creative innovations in the movie production process.

This year we are pleased to announce that accepted SciVis Showcase entries will have their accompanying paper published in a special issue of *Parallel Computing*. Note that *Parallel Computing*'s publisher (Elsevier) is not the same as the SC proceedings (either ACM or IEEE), which is why the submission guidelines for the SciVis Showcase differ from other SC submissions.

2. Accepted Formats

We recommend authors use L^AT_EX [1] to prepare their document. However, submissions created with word processing programs are also accepted. In either case, a PDF file must be submitted for the initial review. For accepted submissions, the publisher will also need the original files.

2.1. L^AT_EX

Please use the Elsevier article class `elsarticle.cls`¹ to prepare your manuscript. The opening command of the `tex` file should be

```
\documentclass[final,5p,times,twocolumn]{elsarticle}
```

The initial submission for review should be a PDF file built from the `tex` and supplemental files. For those submissions that are accepted, the authors will need to provide the L^AT_EX, Bib_T_EX, and image source files.

¹<http://www.ctan.org/tex-archive/macros/latex/contrib/elsarticle>

2.2. Word Processing

Authors using a word processing program (such as Microsoft Office, Apple Pages, or Apache OpenOffice) to prepare their paper should take care to adhere to the following guidelines.

The text should be 10pt Times Roman. The document (except for the title and abstract) should be in two columns with each 3.5 inches wide. The total height of the text on the page should be no more than 9.5 inches.

Sections and subsections (except for the Acknowledgments and References) should be numbered. These numbers should be used for cross referencing. Top level section headers should be in 10pt Times Roman Bold and be numbered 1., 2., etc. Subsection level headers should be in 10pt Times Roman Italics and be numbered under their main section as, for example, 1.1 (then 1.1.1, 1.1.2, ...), 1.2, etc.

The paper must be converted to PDF for its initial submission to <https://submissions.supercomputing.org/>. For those submissions that are accepted, the authors will need to provide the word processing in its native format (such as .docx) as well as any images used in their native formats.

3. Paper Length

Submitted papers can be no more than 6 pages formatted as specified in this document.

4. Figures

Figures are highly encouraged. All figures should have a caption like that shown in Figure 1. If the figure contains raster graphics, it should have at least 300 dots-per-inch (dpi) on the page. Any submitted PDF must have the images embedded in them, but for publication the image in its original format (such as eps, pdf, tiff, png, or jpeg).

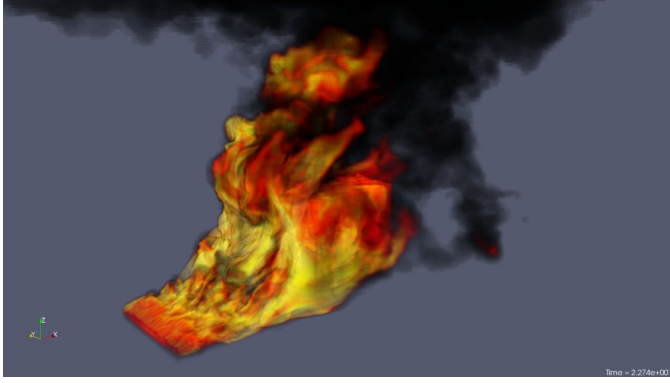


Figure 1: All images used in figures should be at least 300dpi on the page. A numbered caption in 8pt Times Roman font should be attached to all figures.

5. Tables

Tables can be inserted as numbered elements, like Table 1, similar to figures. Tables should be created as editable text and not as images. Avoid using vertical rules and shading in table cells.

Table 1: Table captions should be in 8pt Times Roman font.

time (s)	x (m)	v (m/s)	a (m/s ²)
0.0	0.0	10.0	9.8
0.5	3.8	5.1	9.8
1.0	5.1	0.2	9.8
1.5	4.0	-4.7	9.8
2.0	0.4	-9.6	9.8
2.5	-5.6	-14.5	9.8

6. Equations

Equations should be prepared using L^AT_EX's or your word processor's facility. Do not embed "graphically designed" equations.

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a} \tag{1}$$

Acknowledgments

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References

[1] L. Lamport, L^AT_EX: A Document Preparation System, Addison Wesley, 1994.