



LATEX Template for an iDSI Technical Report

CAMERON DART 1 AND THE BIG \mathbf{Dog}^2

Compiled January 20, 2017

Here is my very important research that I worked very hard on and because I am brilliant the work will you will read below will change your life in unimaginable ways. Well at least until you die, then it will change the lives of your posterity until the end of your family line.

https://github.com/lcdm-uiuc

1. INTRODUCTION

This template is designed to assist with creating a two-column research article or letter to submit to *iDSI*.

If you have a question while using this template on write LATEX, please use the help menu ("?") on the top bar to search for help or ask us a question using the option in the lower right of the editor.

2. EXAMPLES OF ARTICLE COMPONENTS

The sections below show examples of different article components.

3. FIGURES AND TABLES

It is not necessary to place figures and tables at the back of the manuscript. Figures and tables should be sized as they are to appear in the final article. Do not include a separate list of figure captions and table titles.

Figures and Tables should be labelled and referenced in the standard way using the \label{} and \ref{} commands.

A. Sample Figure

Figure 1 shows an example figure.

Fig. 1. False-color image, where each pixel is assigned to one of seven reference spectra.

B. Sample Table

Table 1 shows an example table.

4. SAMPLE EQUATION

Let X_1, X_2, \ldots, X_n be a sequence of independent and identically distributed random variables with $E[X_i] = \mu$ and $Var[X_i] = \sigma^2 < \infty$, and let

$$S_n = \frac{X_1 + X_2 + \dots + X_n}{n} = \frac{1}{n} \sum_{i=1}^{n} X_i$$
 (1)

Table 1. Shape Functions for Quadratic Line Elements

local node	$\{N\}_m$	$\{\Phi_i\}_m\ (i=x,y,z)$
m = 1	$L_1(2L_1-1)$	Φ_{i1}
m = 2	$L_2(2L_2-1)$	Φ_{i2}
m = 3	$L_3 = 4L_1L_2$	Φ_{i3}

denote their mean. Then as n approaches infinity, the random variables $\sqrt{n}(S_n - \mu)$ converge in distribution to a normal $\mathcal{N}(0, \sigma^2)$.

5. SAMPLE ALGORITHM

Algorithms can be included using the commands as shown in algorithm 1.

Algorithm 1. Euclid's algorithm

1: procedure EUCLID(<i>a</i> , <i>b</i>)		⊳ The g.c.d. of a and b
2:	$r \leftarrow a \bmod b$	
3:	while $r \neq 0$ do	\triangleright We have the answer if r is 0
4:	$a \leftarrow b$	
5:	$b \leftarrow r$	
6:	$r \leftarrow a \bmod b$	
7:	return b	⊳ The gcd is b

FUNDING INFORMATION

National Science Foundation (NSF) (1263236, 0968895, 1102301); The 863 Program (2013AA014402).

ACKNOWLEDGMENTS

Formal funding declarations should not be included in the acknowledgments but in a Funding Information section as shown above. The acknowledgments may contain information that is not related to funding:

The authors thank H. Haase, C. Wiede, and J. Gabler for technical support.

¹National Center For Supercomputing Applications (NCSA)

²Laboratory for Computation, Data, and Machine Learning

³ Illinois Data Science Initiative





SUPPLEMENTAL DOCUMENTS

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REFERENCES

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However, full references (to aid the editor and reviewers) must be included as well on an informational page that will not count against page length; again this will be produced automatically if you are using a .bib file and have the \setboolean{shortarticle}{true} option selected.