

# Template of Manuscript in BISC 2024, SPIE proceedings manuscript sample (A4 size)

S. Gregory Jones\*<sup>a</sup>, Titania A. R. Schmidt<sup>b</sup>, Kenneth M. Suzuki<sup>a</sup>

<sup>a</sup>Nation's Research Laboratory, 345 Photon Drive, Los Angeles, CA, USA 95555-0345; <sup>b</sup>Dept. of Optics, Central Univ./City Branch, 9876 Light Ave., Philadelphia, PA USA 00555-9642

## ABSTRACT

From BISC2024, the SPIE format will be used for BISC2024 proceedings. Therefore, a minimum of 2 pages and a maximum of 12 pages are mandatory required. Manuscripts accepted for the BISC2024 proceedings will be published in the OPIC Technical Digest and may also be submitted for inclusion in the SPIE Digital Library. Those who wish to publish their manuscripts in the SPIE Digital Library must submit the manuscript accepted for BISC2024 proceedings through SPIE submission site. Information will be noticed in the acceptance email from OPIC around early February 2024.

Begin the abstract two lines below author names and addresses. The abstract summarizes key findings in the paper in 250 words or less. For the **keywords**, select up to 8 key terms for a search on your manuscript's subject.

**Keywords:** Times Roman, image area, acronyms, references

## 1. INTRODUCTION

### 1.1 Margins

If the paper does not have the margins shown in Table 1, it will not upload properly.

Table 1. Margins and print area specifications.

PAPER MARGINS			
A4		Letter	
Top margin	2.54 cm ( <i>1in.</i> )	Top margin	1.0 in. ( <i>2.54 cm</i> )
Bottom margin	4.94 cm ( <i>1.95 in.</i> )	Bottom margin	1.25 in. ( <i>3.17 cm</i> )
Left, right margin	1.925 cm ( <i>.76 in.</i> )	Left, right margin	.875 in. ( <i>2.22 cm</i> )
<u>Printable area--all text, figures and footnotes:</u>			
A4:	17.15×22.23 cm	Letter :	6.75×8.75 in.

### 1.2 Fonts

Table 2 shows the font sizes and highlighting in a typical manuscript. These font "styles" are contained with this sample manuscript and Section 4 below explains how to use them. Use Times Roman or another standard font to avoid font errors.

### 1.3 Figures and captions

Figures are centered. Use or insert .jpg, .tiff, or .gif illustrations instead of PowerPoint or graphic constructions. Captions go below figures. Indent 5 spaces from left margin and justify.



Figure 1. Figure captions are indented 5 spaces and justified. If you are familiar with Word styles, you can insert a field code called Seq figure which automatically numbers your figures.

s.greg.jones@narelab.com; phone 1 222 555-1234; fax 1 222 555-876; narelab.com

Table 2. Manuscript font sizes and formatting. This Microsoft Word template includes these formats as automated "styles," which can be selected in the Format menu -- Styles and Formatting. (9pt)

Preformatted SPIE Template Styles	
<i>Manuscript component</i>	<i>Description</i>
<b>SPIE paper title</b>	<b>16 pt. bold, center</b>
<b>SPIE authors/affiliations</b>	<b>12 pt., center</b>
<b>Keywords:</b> *Keywords*	10 pt., left justify
<b>SPIE ABSTRACT TITLE</b>	<b>11 PT. BOLD, center</b>
SPIE abstract body text	10 pt., justify
<b>SPIE SECTION HEADING</b>	<b>11 pt. BOLD, center, whole numbers</b>
<b>1.1 Heading 2, SPIE subsection heading</b>	<b>10 pt. bold, left justify, subsection numbers</b>
SPIE body text	10 pt., justify
SPIE figure caption	9 pt., justify below figure
SPIE table caption	9 pt., justify above figure
SPIE footnote text	9 pt., justify, numbered
<b>REFERENCE HEADING</b>	<b>11 pt. BOLD, center</b>
1. SPIE reference listing	10 pt., justify, numbered in brackets

## 2. MATHEMATICAL EQUATIONS

Use common fonts like Times Roman in your math equations. A math reference in a paragraph sentence such as  $\alpha \mathcal{G} \frac{\rho}{s}$  is not numbered. The steps of a mathematical argument can be numbered using a right-aligned tab for clarity, for example

$$\alpha = \frac{-b \pm \sqrt{b^2 - 2ac}}{2o} \quad (1)$$

and

$$\rho = \sum (x - x')^2. \quad (2)$$

### 2.1 Tables and captions

Tables are centered. The caption goes above the table. The caption text should indent 5 spaces from left margin and justify. Table examples are on page 1 and 2 and below.

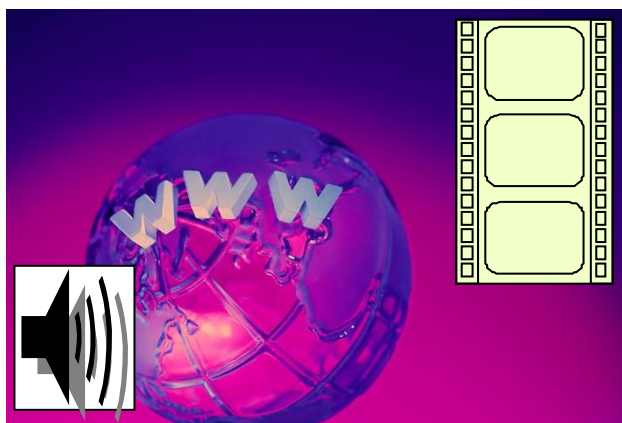
Table 3. Information on video and audio files that can accompany a manuscript submission.

Item	Video	Audio
File name	Video1, video2, ...	Audio1, audio2, ...
Number of files	0-10	0-10
Size of each file	max. 5 mb	max. 5mb
File types accepted	.mpeg, .mov (Quicktime), .wmv	.wav, .mp3

### 3. MULTIMEDIA FIGURES – VIDEO AND AUDIO FILES

Video and audio files can be included for publication. Table 3 lists the specifications for the multimedia files. Use a screenshot or another .jpg illustration for placement in the text. Use the file name to begin the caption. The text of the caption must end with the text "<http://dx.doi.org/doi.number.goes.here>" which tells the SPIE editor where to insert the hyperlink in the digital version of the manuscript.

Here is a sample illustration and caption for a multimedia file:



Video 2. A label of "Video/Audio 1, 2, ..." should appear at the beginning of the caption to indicate to which multimedia file it is linked. Include this text at the end of the caption: <http://dx.doi.org/doi.number.goes.here>

### 4. USING THIS TEMPLATE AND ITS AUTOMATIC FORMATTING

This document template and more information is available on SPIE.org:

<http://spie.org/x14101.xml> or by emailing [authorhelp@spie.org](mailto:authorhelp@spie.org)

### REFERENCES

- [1] Booth, N. and Smith, A. S., [Infrared Detectors], Goodwin House Publishers, New York & Boston, 241-248 (1997).
- [2] Davis, A. R., Bush, C., Harvey, J. C. and Foley, M. F., "Fresnel lenses in rear projection displays," SID Int. Symp. Digest Tech. Papers 32(1), 934-937 (2001).
- [3] Van Derlofske, J. F., "Computer modeling of LED light pipe systems for uniform display illumination," Proc. SPIE 4445, 119-129 (2001).
- [4] Myhrvold, N., "Confessions of a cybershaman," Slate, 12 June 1997, <<http://www.slate.com/CriticalMass/97-06-12/CriticalMass.asp>> (19 October 1997). [www.optics4yurresearch.com/7752.html](http://www.optics4yurresearch.com/7752.html)
- [5] Jones, C. J., Director, Miscellaneous Optics Corporation, interview, Sept. 23 2011
- [6] FamilyName, GivenName Initial., "Title," Source, pg# (year).