**LaTeX template for preparing a research article for submission to the *Journal of Optical Communications and Networking***

**Author One**\(^{1,2,3}\), **Author Two**\(^{2,*}\), and **Author Three**\(^{1}\)

\(^{1}\)Publications Department, The Optical Society (OSA), 2010 Massachusetts Avenue NW, Washington D.C., 20036, USA

\(^{2}\)School of Science, University of Technology, 2000 J St. NW, Washington DC, 20036, USA

\(^{3}\)School of Optics, University of Technology, 2000 J St. NW, Washington DC, 20036, USA

\(^{*}\)Corresponding author: email@email.com

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1. **INTRODUCTION**

This template is designed to assist with creating an article to submit to the *Journal of Optical Communications and Networking*. See the OSA’s Style Guide and Manuscript Templates pages for more details.

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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.

B. **Author Photographs**

Author photographs. The final printed size of an author photograph is exactly 1 inch wide by 1 1/4 inches long (6 picas × 7 1/2 picas). Please ensure that the author photographs you submit are proportioned similarly.

<table>
<thead>
<tr>
<th>A</th>
<th>B</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
</tr>
</tbody>
</table>

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

Table 1 shows an example table.

<table>
<thead>
<tr>
<th>local node</th>
<th>( {N}_m )</th>
<th>( {\Phi_i}_m ) (( i = x, y, z ))</th>
</tr>
</thead>
<tbody>
<tr>
<td>( m = 1 )</td>
<td>( L_1(2L_1 - 1) )</td>
<td>( \Phi_{11} )</td>
</tr>
<tr>
<td>( m = 2 )</td>
<td>( L_2(2L_2 - 1) )</td>
<td>( \Phi_{12} )</td>
</tr>
<tr>
<td>( m = 3 )</td>
<td>( L_3 = 4L_1L_2 )</td>
<td>( \Phi_{13} )</td>
</tr>
</tbody>
</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 \( \text{Var}[X_i] = \sigma^2 < \infty \), and let

\[
S_n = \frac{X_1 + X_2 + \cdots + X_n}{n} = \frac{1}{n} \sum_{i=1}^{n} X_i
\]

(1)

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

\[
\begin{align*}
1: & \quad \text{procedure EUCLID}(a, b) \triangleright \text{The g.c.d. of } a \text{ and } b \\
2: & \quad r \leftarrow a \mod b \\
3: & \quad \text{while } r \neq 0 \text{ do} \triangleright \text{We have the answer if } r \text{ is } 0 \\
4: & \quad a \leftarrow b \\
5: & \quad b \leftarrow r \\
6: & \quad r \leftarrow a \mod b \\
7: & \quad \text{return } b \triangleright \text{The gcd is } b
\end{align*}
\]

6. SUPPLEMENTAL MATERIAL

Consult the Author Guidelines for Supplementary Materials in OSA Journals for details on accepted types of materials and instructions on how to cite them. All materials must be associated with a figure, table, or equation or be referenced in the results section of the manuscript. (1) 2D and 3D image files and video must be labeled “Visualization,” not “Movie,” “Video,” “Figure,” etc. (2) Machine-readable data (for example, csv files) must be labeled “Data File.” Number data files and visualizations consecutively, e.g., “Visualization 1, Visualization 2….” (3) Large datasets or code files must be placed in an open, archival database. Such items should be mentioned in the text as either “Dataset” or “Code,” as appropriate, and also be cited in the references list. For example, “see Dataset 1 (Ref. [1]) and Code 1 (Ref [2]).” Here are examples of the references:

A. Sample Dataset Citation


B. Sample Code Citation


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FUNDING

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8. REFERENCES

Full references (to aid the editor and reviewers) must be included. This will be produced automatically if you are using a .bib file.

Add citations manually or use BibTeX. See [1, 2].

REFERENCES

experience, including summer and fellowship jobs. Job titles are capitalized. The current job must have a location; previous positions may be listed without one. Information concerning previous publications may be included. Try not to list more than three books or published articles. The format for listing publishers of a book within the biography is: title of book (city, state: publisher name, year) similar to a reference. Current and previous research interests end the paragraph.

The third paragraph begins with the author’s title and last name (e.g., Dr. Smith, Prof. Jones, Mr. Kajor, Ms. Hunter). List any memberships in professional societies. Finally, list any awards and work for committees and publications. If a photograph is provided, the biography will be indented around it. The photograph is placed at the top left of the biography. Personal hobbies will be deleted from the biography.

**Alice Smith** received her BSc (Mathematics) in 2000 from The University of Maryland. Her research interests also include lasers and optics.