

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

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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 [Style Guide](#) and [Manuscript Templates](#) pages for more details.

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3. EXAMPLES OF ARTICLE COMPONENTS

The sections below show examples of different article components.

4. 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.

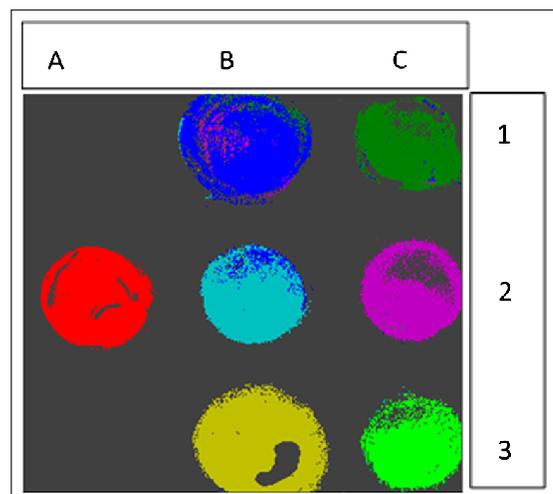


Fig. 1. False-color image, where each pixel is assigned to one of seven reference spectra.

B. 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 \times 7 1/2 picas). Please ensure that the author photographs you submit are proportioned similarly.

C. Sample Table

Table 1 shows an example table.

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}

5. SAMPLE EQUATION

Let X_1, X_2, \dots, 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

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

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

6. SAMPLE ALGORITHM

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

Algorithm 1. Euclid's algorithm

```

1: procedure EUCLID( $a, b$ )                                ▷ The g.c.d. of  $a$  and  $b$ 
2:    $r \leftarrow a \bmod b$ 
3:   while  $r \neq 0$  do                                    ▷ 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  $b$ 

```

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Consult the Author Guidelines for Supplementary Materials in Optica's Journals for details on accepted types of materials and instructions on how to cite them. For preprints submitted to Optica Open a link to supplemental material should be included in the submission, but do not upload the material. 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

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A. Sample Dataset Citation

1. M. Partridge, "Spectra evolution during coating," figshare (2014) [retrieved 13 May 2015], <http://dx.doi.org/10.6084/m9.figshare.1004612>.

B. Sample Code Citation

2. C. Rivers, "EpiPy: Python tools for epidemiology," (figshare, 2014) [retrieved 13 May 2015], <http://dx.doi.org/10.6084/m9.figshare.1005064>.

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FUNDING

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9. REFERENCES

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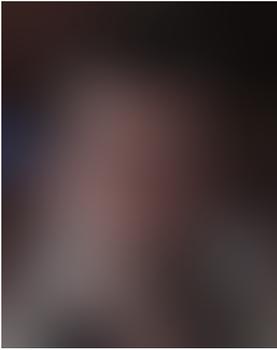
Add citations manually or use BibTeX. See [1, 2].

REFERENCES

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2. Y.-H. Wen, J.-W. Ho, and K.-M. Feng, "Simultaneous all-optical transparent phase multiplexing/de-multiplexing based on fwm in a hnlf," in *Optical Fiber Communication Conference*, (Optica, 2022), p. W4D.1.

AUTHOR BIOGRAPHIES

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