

Manuscript submission and page length estimation for SPIE *OE Letters* and *Optical Engineering* journals

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Abstract. With this template, and associated style and L^AT_EX packages, it is possible to estimate the page length of manuscripts for submission to the SPIE journals *Optical Engineering* and *OE Letters*. With a strict three-page limit, this is particularly important for the latter. This template gives simple instructions on how to prepare the manuscript. © 2006 Society of Photo-Optical Instrumentation Engineers.
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Subject terms: L^AT_EX, *OE Letters*, page length estimate, manuscript submission.

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1 Prerequisites

The `opteng` style requires the following packages to be installed on the system:

- `overcite` for SPIE style citations
- `geometry` defines the page layout
- `amsmath` is useful for displaying maths
- `fancybox` is used to place the OE LETTERS header
- `pstricks` is used to create the OE LETTERS header
- `graphicx` is used for inserting eps figures

Note SPIE journals are set in times font, thus the package `times` should be loaded in the preamble of the tex file.

2 Introduction

The preamble of the document is where differentiation between either the *Optical Engineering* (`optengjnl`) or the *OE Letters* (`optenglett`) format occurs. Furthermore there is possibility to choose a format suitable for submission (`optengsubmit`, 12pt, doubleline space, single column).

1. Choose either `optengjnl`, `optenglett`, or `optengsubmit` option in the `\documentclass` definition.

2. Choose either instruction. One will print the gray background OE LETTERS heading. Both print rough footers. For manuscript submission `no` command should be active.
3. For *OE Letters* everything is set. Only for *Optical Engineering* should the `\twocolumn` and `minipage` commands be activated.

The *OE Letters* format does not use sections or subsections. Thus, the document should be started directly after the abstract and subject terms, and no `\section` or `\subsection` environments should appear in the tex file.

3 Environments

3.1 Abstract

SPIE journal abstracts are set in serif font, so put mathematics in `\mathsf`. The copyright is automatically generated, but the user can specify the digital object identifier `\doi`, subject terms `\subjterm`, and the submission/acceptance date `\loginfo`.

3.2 Displayed equations

Equations should fit into one column:

$$d_2 - d_1 = \pm n\pi, \tag{1}$$

or

$$E(z, t) = E = \Re[A \exp(-j2\pi\nu t)] \\ = \frac{1}{2} [A \exp(-j2\pi\nu t) + A^* \exp(j2\pi\nu t)], \tag{2}$$

or even

$$\dot{E}_{x,y} = \frac{1}{2} (1 + j\alpha) (G_{x,y} - \gamma) E_{x,y} \\ + \kappa E_{x,y} (t - \tau) \exp(-j\Omega_{x,y}\tau) \\ + (\beta_{sp} N)^{1/2} \xi_{x,y}. \tag{3}$$

Use standard LaTeX or AMSTeX environments. For equations that *must* span two columns, it is possible to use a float environment, for example, `\begin{figure*} ... \end{figure*}`. Such an environment will not interfere with figure or table numbering (which is controlled by the caption), but it *will* cause equations to float, often with unwanted consequences.

Tab. 1 Sample Table

TEST	TEST	TEST	TEST	TEST
TEST	TEST	TEST	TEST	TEST
TEST	TEST	TEST	TEST	TEST
TEST	TEST	TEST	TEST	TEST

3.3 Figures and tables

Figures should be set to one-column size (≈ 8.3 cm) whenever possible. This can be accomplished by setting the `graphicx` width equal to `\linewidth`, for example, **Figures 1** and

6.1 *Dummy subsection*

Dummy text. Dummy text.

6.1.1 Dummy subsubsection

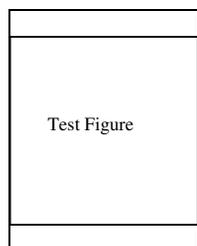
Dummy text. Dummy text.

Acknowledgments

The authors would like to acknowledge...

References

1. P. Egan, F. Lakestani, M. P. Whelan, and M. J. Connelly, "Full-field optical coherence tomography with a complimentary metal-oxide semiconductor digital signal processor camera," *Optical Engineering*, vol. 45, no. 1, p. 015601, Jan. 2006, available: spiedl.aip.org.



Patrick Egan received his BEng degree in electronic and computer engineering at the University of Limerick, Ireland in 2003. He is currently involved in doctoral research studies in a collaboration between the University of Limerick and the European Commission Joint Research Centre, Italy. In April 2006 he was awarded a postdoctoral research associate-ship at the National Institute of Standards and Technology, Gaithersburg, MD USA, where he hope to commence research following comple-

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