

## Information for the IEICE Electronics Express Authors (As of January 4, 2012)

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IEICE ELECTRONICS EXPRESS (**ELEX**) is an all-electronic journal published twice a month by the Institute of Electronics, Information and Communication Engineers (IEICE) and edited by the Electronics Society in IEICE. **ELEX** publishes original, peer-reviewed papers that embrace the entire field of modern electronics, including:

- Optoelectronics, Lasers and quantum electronics,  
    Ultrafast optics, Silicon photonics, Planar lightwave circuits
- Fiber optics, Microwave photonics, Optical interconnection,  
    Photonic signal processing, Photonic integration and systems
- Electromagnetic theory
- Microwave and millimeter wave devices, circuits, and systems
- Electron devices, circuits, and systems
- Integrated circuits
- Micro- or nano-electromechanical systems
- Storage technology
- Superconducting electronics
- Electronic materials, semiconductor materials
- Electronic displays
- Organic molecular electronics, Polymer optical circuits
- Ultrasonic electronics
- Electron tubes, vacuum and beam technology
- Electronic instrumentation and control
- Wireless circuits and devices
- Electromagnetic compatibility (EMC)
- Fiber-optic communication
- Optical fiber
- Wireless communication hardware
- Sensing hardware
- Other communication hardwares

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1. LaTeX style file for ELEX: [elex.cls](#)
2. LaTeX template file (also instructions): [ELEX\\_template.tex](#)
3. Sample image files:
  - o For Mac: [pin.eps](#), [pin2.eps](#), [lens\\_scanner.eps](#), [snapshot.eps](#)
  - o For PC: [pin.eps](#), [pin2.eps](#), [lens\\_scanner.eps](#), [snapshot.eps](#)
4. Sample movie file: [lens\\_scanner.mov](#)

For MS Word users

1. MS Word template (also instructions): [ELEX\\_template.doc](#)
2. Sample movie file: [lens\\_scanner.mov](#)
3. Sample PDF file with movie attached: [ELEX\\_template.pdf](#)

An example of manuscripts in ELEX style

1. LaTeX source file: [ELEX\\_exampleLATEX.tex](#)
2. LaTeX dvi file (in PDF format): [ELEX\\_exampleLATEX.pdf](#)
3. MS-Word file (in PDF format): [ELEX\\_exampleWord.pdf](#)

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LaTeX template file (also instructions): ELEX\_template.tex

```
%\documentclass[Proof]{elex}
\documentclass{elex}
```

```
\usepackage[dvips]{graphicx}
```

```
\vol{*}
```

```
\no{*}
```

```
\title{Instructions/template for
preparing your ELEX
manuscript (As of May 1, 2011)}
```

```
\author{Hiroshi Toshiyoshi,1 Kazukiyo Joshin,2 and Takuji Takahashi1}
```

```
\affiliate{
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1 Institute of Industrial Science, University of Tokyo
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2 Photo Electronics Lab, Fujitsu Laboratories Co.
10-1 Wakamiya, Morinosato, Atsugi, Kanagawa 243-0197, Japan
}
```

```
\email{hiro@iis.u-tokyo.ac.jp}
```

```
\received{2003}{7}{00}
```

```
\accepted{2003}{7}{00}
```

```
\setcounter{page}{1}
```

```
\begin{document}
```

```
\maketitle
```

```
\begin{abstract}
```

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```
\end{abstract}
```

```
\begin{keywords}
```

ELEX, template, elex.cls, up to six words

```
\end{keywords}
```

```
\begin{classification}
```

XYZ (choose one from Table II)

```
\end{classification}
```

`\begin{thebibliography}{99}`

`\bibitem{journal paper}` A. B. Author1, C. D. Author2, and E. F. Author3, "Title of journal paper with a comma inside the quotation marks like this," *{\it Journal Title in Italic}* vol. 12, no. 3, pp. 456-789, month, year.

`\bibitem{chapter}` A. B. Chapter-Writer, "Title of quoted chapter" in *{\it Book Title in Italic without Quotation Marks}*, ed. C. D. Editor, pp. 123-456, Publisher Name, City, year.

`\bibitem{book}` A. B. Book-Author, *Book {\it Title in Italic without Quotation Marks}*, Publisher Name, City, year.

`\bibitem{proceeding paper}` A. B. Author1, C. D. Author2, and E. F. Author3, "Title of paper in proceeding," Proc. 12th Conf. Name, City, Country, paper ID, pp. 123-456, month, year.

`\bibitem{web link}` Visit <http://www.elex.ieice.org> for latest version of this template.

`\end{thebibliography}`

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`\section{Typographical style}`

Consult with Table~\ref{tab:style} on the detail typographical styles.

```
\begin{table}[ht]
\begin{center}
\caption{ELEX typographical style} \label{tab:style}
\begin{small}
\begin{tabular}{lcl}
\hline
Article title & \quad & Arial 26pt Bold Green\Y
\hline
Author Name & \quad & Times New Roman 12pt Bold Black\Y
\hline
Author Affiliation & \quad & Times New Roman 10pt Italic Black\Y
\hline
Author Address & \quad & Times New Roman 10pt Italic Black\Y
\hline
Author Contact E-mail & \quad & Times New Roman 10pt Italic Blue\Y
\hline
Section Heading & \quad & Arial 11pt Bold Black\Y
(incl. "Abstract" and "Keywords") & & \Y
\hline
Abstract Body & \quad & Times New Roman 11pt Black\Y
\hline
Reference Body & \quad & Times New Roman 10pt Black\Y
\hline
Section Title & \quad & Arial 12pt Bold Black\Y
\hline
Text Body & \quad & Times New Roman 11pt Black\Y
\hline
Figure \Y& Table Label in Caption & \quad & Times New Roman 10pt Bold Black\Y
\hline
Figure \Y& Table Caption Body & \quad & Times New Roman 10pt Black\Y
\hline
Acknowledgement Body & \quad & Times New Roman 11pt Black\Y
\hline
\end{tabular}
\end{small}
\end{center}
\end{table}
```

\subsection{Title}

Title should start flush left. Only the first letter in the title is capitalized (this is true to section titles and figure captions) Avoid including abbreviations unless definitely needed.

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#### ¶subsection{Keywords}

Maximum six (6) keywords are listed. Carefully choose appropriate keywords for your paper being correctly spotted by computerized search.

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Category index in the classification is used by the ELEX Editorial Office when directing your manuscript to corresponding Associate Editor. Furthermore it is displayed in ELEX website and in archives for readers' convenience. Choose most relevant category from Table~¶ref{tab:classification}. The Editorial Committee may change the subject index that authors select, if the Editorial Committee judges that the authors' selection is not the best. Note that the index might be changed without notification.

```
¶begin{table}[ht]
¶begin{center}
¶caption{ELEX category classification (As of October 1, 2008)} ¶label{tab:classification}
¶begin{small}
¶begin{tabular}{l}
¶hline
Optoelectronics, Lasers and quantum electronics, Ultrafast optics, ¶¶
Silicon photonics, Planar lightwave circuits ¶¶
¶hline
Fiber optics, Microwave photonics, Optical interconnection, ¶¶
Photonic signal processing, Photonic integration and systems ¶¶
¶hline
Electromagnetic theory ¶¶
¶hline
Microwave and millimeter wave devices, circuits, and systems ¶¶
¶hline
Electron devices, circuits, and systems ¶¶
¶hline
Integrated circuits ¶¶
¶hline
Micro- or nano-electromechanical systems ¶¶
¶hline
Storage technology ¶¶
¶hline
Superconducting electronics ¶¶
¶hline
Electronic materials, semiconductor materials ¶¶
¶hline
Electronic displays ¶¶
¶hline
Organic molecular electronics, Polymer optical circuits ¶¶
```

\hrline  
 Ultrasonic electronics \\\  
 \hrline  
 Electron tubes, vacuum and beam technology \\\  
 \hrline  
 Electronic instrumentation and control \\\  
 \hrline  
 Wireless circuits and devices \\\  
 \hrline  
 Electromagnetic compatibility (EMC) \\\  
 \hrline  
 Fiber-optic communication \\\  
 \hrline  
 Optical fiber \\\  
 \hrline  
 Wireless communication hardware \\\  
 \hrline  
 Sensing hardware \\\  
 \hrline  
 Other communication hardwares \\\  
 \hrline  
 \end{tabular}  
 \end{small}  
 \end{center}  
 \end{table}

### \subsection{Main text and headings}

Single column format is applied throughout the manuscript. The first line of the first paragraph of each section start flush left. Section headings are numbered consecutively in Arabic numbers. Subsection headings are numbered in Arabic numbers to the right of the decimal point (like this 4.5).

### \subsection{Equations}

Equations are centered with the equation number (in Arabic) appearing at the right-hand margin, in parenthesis:

```

\begin{equation}
T_{\{\mbox{M}\}^{\{\phi\}}} = 2 \times \frac{G w t^3}{3 l} \phi \left( 1 - \frac{192}{\pi^5} \left\{ \frac{t}{w} \right\} \tanh \frac{\pi w}{2 t} \right).
\end{equation}
\noindent

```

Long equations can be folded in several lines but avoid leading to misinterpretation. Equations are referenced in the main text as Eq. (1).

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```
¥begin{figure}[htb]
¥begin{center}
¥includegraphics[width=8cm]{lens_scanner.eps}
¥end{center}
¥caption{Include all graphics in the manuscript file. Do not submit figures in
separate files.}
¥label{fig:scanner}
¥end{figure}
```

### ¥subsection{Tables}

Tables are placed in the document in the same manner as figures. Tables are referred in Roman numbers such as Table~¥ref{tab:style}, without abbreviating to Tab.~¥ref{tab:style}. Table captions are placed above the corresponding tables.

### ¥subsection{Movie files}

It is one of the ELEX features that author could include movie files (mov or mpg) in their final PDF manuscript. Use file attachment tool of Adobe Acrobat (not Acrobat Reader):

```
¥begin{enumerate}
¥item Select the file attachment tool ¥includegraphics[width=5mm]{pin.eps}.
¥item Select the location where the movie file is placed (in the figure box).
¥item Select the movie file from a dialog box.
¥item In the comment properties, set the desired options, if needed.
¥item Click OK
¥end{enumerate}
```

Movie files are represented by an Adobe Acrobat icon (like this:¥includegraphics[width=8mm]{pin2.eps} ) and activated by clicking on it. To help readers, you need to place a snapshot of the movie file and place it as a figure. Notice readers that a movie file has been attached (see Fig.~¥ref{fig:movie}).

```
¥begin{figure}[htb]
¥begin{center}
¥includegraphics[width=6cm]{snapshot.eps}
¥end{center}
¥caption{Place a snapshot from the movie file to display for readers.  Movie can be activated by
clicking on the icon.  Movie file attached.}
¥label{fig:movie}
¥end{figure}
```

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## ¥section\*{Acknowledgments}

Your acknowledgements to co-workers and financial sponsors are placed here.

```
¥end{document}
```