

Manuscript Title First Line

Second Line

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Abstract

Insert abstract text here.

I. PACKAGE OPTIONS

- `\documentclass[journal, onecolumn]{IEEEtran}`: manuscript draft
- `\documentclass[journal]{IEEEtran}`: IEEE journal format
- `\usepackage{l16cn}`: default
- `\usepackage[nopic]{l16cn}`: hide pictures (for faster compilation)
- `\usepackage[nohl]{l16cn}`: hide highlights
- `\usepackage[draft]{l16cn}`: add “Confidential” watermark

II. FILE STRUCTURE

- Main file: `journal_template.tex`
- Sub-files:
 - Body: `text.tex`
 - Abstract: `abstract.tex`
 - Glossary: `definitions.tex`
 - Bibliography: `references.bib`

III. GLOSSARY

`definitions.tex` contains all the glossary, acronym, and notation items. Use `\gls{ }` for frequently used terms. Example:

An `\gls{abm}` is a class of computational models; `\glspl{abm}` are typically implemented as computer simulations.

See output:

An agent-based model (ABM) is a class of computational models; ABMs are typically implemented as computer simulations.

Similarly, you can use it on glossary items (e.g., use `\glspl{al}` for plural “artificial lives”) and mathematical notations (e.g., use `\gls{state}` or `$_\gls{state}$` for x).

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IV. MULTI-LINE EQUATION

Proper way to handle multi-line equations:

```
\begin{equation}
\begin{aligned}
x(t+1) &= Ax(t) + Bu(t) + \omega(t), \\
y(t) &= Cx(t) + Du(t) + \nu(t).
\end{aligned}
\end{equation}
```

See output:

$$\begin{aligned} x(t+1) &= Ax(t) + Bu(t) + \omega(t), \\ y(t) &= Cx(t) + Du(t) + \nu(t). \end{aligned} \tag{1}$$

V. FIGURE

Insert figure (below) and hide figure with the `nopic` option.



Fig. 1: Dice

```
\begin{figure}[htbp]
\centering
\includegraphics
[width=\linewidth]{fig/download/dice.png}
\caption{Dice}
\label{fig:dice}
\end{figure}
```

VI. HIGHLIGHT

You can **highlight** certain words with the `\hl{ }` code. You can also change certain words to **red** with the `\red{ }` code. To hide the highlight, use the `nohl` package option.

VII. CITATION

`references.bib` contains all the references. Use `\cite{ }` for journal and `\citep{ }` for book. For instance, `\cite{galton1907vox}` would return a numbered citation like this: [1]. Numbered citations should be good for most journals.

VIII. ROOT

Insert the following at the beginning of every sub-file (replace `<main file name>`) with the main file name you use:

```
% !TEX root = <main file name>.tex
```

For instance, if your main file is `journal_template.tex`, write the following at the first line of every sub-file:

```
% !TEX root = journal_template.tex
```

REFERENCES

[1] F. Galton, “Vox populi (the wisdom of crowds),” *Nature*, vol. 75, pp. 450–451, 1907.