

## FORMATTING

- The **title** and **subtitle** of your paper should be in Title Case. Include your full name, the name of the university, the city and country location(s), and your email address.
- For the **body** of your paper, use 10-pt. Times New Roman or a similar font. Code and pseudo-code should be in a **monospaced** font such as Courier New or Consolas.
- Your **first paragraph** should begin with a drop cap two lines deep, followed by the next 8-12 characters (or 1-2 words) in all caps.
- Indent the **first line** of each paragraph.
- **Charts** and **diagrams** should be numbered “Fig. 1,” “Fig. 2,” etc.
- **Reference List:** Write the reference numbers along the left margin of the page, in a separate column from the text of the reference.

## ABSTRACT

The abstract is a **summary** of your paper, briefly outlining the problem you studied, your methods, your findings or results, and their significance. It is one paragraph long and between 150 and 250 words. The abstract should *not* include any numbered citations or equations.

**Abstract:** “Smart” household devices pose considerable security risks...

**Index terms** are keywords that would help someone find your paper in a library database. List the terms in alphabetical order, capitalizing only the first word on the list. If any of your terms are acronyms, write the term in full before putting the acronym in brackets.

**Index Terms:** Data compression, Internet of Things (IOT), sensors, security

## USING LATEX

Many science, math, and engineering papers are typeset using a markup language called **LaTeX**.

To try LaTeX, create a **free account** at: <https://www.overleaf.com>.

An **introduction** to LaTeX specifically for TRU student theses created by Dr. Richard Taylor (Mathematics & Statistics) can be found at <http://faculty.tru.ca/rtaylor/truthesis/documentation.pdf>.

LaTeX uses **BibTeX** and BibLaTeX to manage references. Most research databases (Science Direct, Google Scholar, etc.) and citation management tools allow you to export references in BibTeX format.

For example, if your references were stored in **MyBiblio.bib**, you would use the following LaTeX commands:

```
\bibliographystyle{ieeetrn} to use IEEE style
\bibliography{MyBiblio}
```

In this sample BibTeX reference entry, CARAYON2005284 is the label you would use for in-text citations:

```
@article{CARAYON2005284,
  author = {Carayon, Pascale and Gürses, Ayşe P.},
  title = {A human factors engineering conceptual framework of nursing workload and patient safety in intensive care units},
  journal = {Intensive and Critical Care Nursing},
  volume = {21},
  number = {5},
  pages = {284 - 301},
  year = {2005},
  doi = {https://doi.org/10.1016/j.iccn.2004.12.003},
```

# IEEE IN A NUTSHELL



This guide covers only the most common situations. For more information on IEEE style, please consult: <https://ieeauthorcenter.ieee.org/wp-content/uploads/IEEE-Reference-Guide.pdf> and <http://journals.ieeauthorcenter.ieee.org/wp-content/uploads/sites/7/IEEE-Editorial-Style-Manual-for-Authors.pdf>



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## IN-TEXT CITATIONS

In-text citations are sequential: the first source you cite is [1], the second source is [2], and so on. These numbers correspond to the order in which the sources appear on the References page. If you cite the same source more than once, keep using the first number you assigned it. It is *not* necessary to name the author or the page numbers in your citation.

Direct quotations are rarely used in IEEE papers. Make sure to **put everything in your own words**, with the exception of technical terms.

If your information came from a specific section (e.g., chapter, appendix, table) of your source, you can specify this within your brackets. Often, you will **abbreviate** the word for the type of section. Examples of references include [2, Ch. 10], [6, Algorithm 1], and [3, Fig. 2].

### Citing One Source

Implant technology and nanotechnology are discussed as risks to human rights and freedoms ... [1].

In [2], hard plastics were found to...

One example of this type of engineering is [3].

### Citing More than One Source

Recent studies [1], [6], [9] suggest ...

The debate over the limits of technological solutions ... [3]-[6].

### In-text Citations in LaTeX

Recent studies `\cite{label1, label2}` suggest...

**Note:** *label1* and *label2* do not have any meaning on their own. They must match records in your bibliography (.bib) file.

## REFERENCE LIST

Cite authors using the **first initial of their first name** (given name) and their last name (family name).

The **title of an article, report, or chapter** should be written in Sentence case, with only the first letter of the title, proper names, and acronyms capitalized. The **title of a book or journal** should be written in Title Case.

### Common Journal Title Abbreviations

<i>Journal</i>	<i>J.</i>
<i>Applied</i>	<i>Appl.</i>
<i>Engineering</i>	<i>Eng.</i>
<i>Proceedings</i>	<i>Proc.</i>
<i>Science/Scientific</i>	<i>Sci.</i>
<i>Transactions</i>	<i>Trans.</i>

### Journal Article with DOI

Digital Object Identifiers (DOIs) are permanent locations for material accessed through a library database.

- [1] P. Carayon and A. P. Gürses, "A human factors engineering conceptual framework of nursing workload and patient safety in intensive care units," *Intensive and Critical Care Nursing*, vol. 21, no. 5, pp. 284-301, doi: 10.1016/j.iccn.2004.12.003

### Article from Conference Proceedings

Omit the editors' names if they are not provided.

- [1] O. Batata, V. Augusto, and X. Xie, "Mixed machine learning and agent-based simulation for respite care evaluation," in *Proc. 2018 Winter Simul. Conf.*, M. Rabe, A. A. Juan, N. Mustafee, A. Skoogh, S. Jain, and B. Johansson, Eds., 2018, pp. 2668-2679, doi: 10.1109/WSC.2018.8632385.

### Pre-print (arXiv sites)

Not all papers on arXiv have gone through peer review. Check the authors' credentials.

- [1] F. Chollet, "On the measure of intelligence," 2019. [Online]. Available: arXiv:1911.01547.

### Book (Print)

- [1] J. Kleinberg and E. Tardos, *Algorithm Design*, Boston, MA: Pearson, 2005.

### Chapter of an Edited Book

- [1] F. Ke, "Collaboration and competition in game-based learning," in *Handbook of Game-Based Learning*, J. L. Plass, R. E. Mayer, and B. D. Homer, Eds. Cambridge, MA: MIT, 2020, pp. 329-346.

### Book or Book Chapter (Online - No DOI)

- [1] J. M. Raguso, "Multimedia expert systems," in *The Handbook of Applied Expert Systems*, J. Liebowitz, Ed. Boca Raton, FL: CRC, 1998. [Online]. Available: <https://books.google.ca/books?id=v3GIDwAAQBAJ>

### Software

- [1] *spaCy 2.2*. (2017). Explosion AI. [Online]. Available: <https://spacy.io>

### Patent (Online)

- [1] Water-based data center, by J. Clidaras, D. W. Stiver, and W. Hambrgen. (2009, Apr. 28). U.S. Patent 7525207B2 [Online]. Available: <https://patents.google.com/patent/US7525207>

### Industry Standard

- [1] *IEEE Standard for Environmental Assessment of Electronic Products*, IEEE Standard 1680-2009, Mar. 2010. [Online]. Available: <https://standards.ieee.org/standard/1680-2009.html>