

IEEE Conference Paper Template

General Formatting

Page Setup

- ☐ **Paper size:** US Letter (8.5 × 11 inches)
- ☐ **Margins:** 0.75 inch (19 mm) all sides
- ☐ **Columns:** Two columns with 0.25 inch (6 mm) space between
- ☐ **Font:** Times New Roman, 10-point for body text
- ☐ **Line spacing:** Single-space
- ☐ **Alignment:** Justified (both left and right)

Length

- ☐ **Typical:** 4-6 pages for conference papers
- ☐ **Maximum:** Check specific conference requirements
- ☐ **Page numbers:** Usually NOT included in final submission

Title and Authors Section

Paper Title

- ☐ **Font:** 24-point Times New Roman
- ☐ **Style:** Bold
- ☐ **Capitalization:** Title Case (Each Major Word Capitalized)
- ☐ **Position:** Centered at top of page
- ☐ **Spacing:** Leave blank line after title

Example:

Machine Learning Applications in Network Security:
A Comprehensive Analysis

Author Names and Affiliations

Format:

First Author Name, Second Author Name, and Third Author Name
Department Name, Institution Name
City, State/Province, Country
email: author@institution.edu

Guidelines: - ☐ **Font:** 10-point Times New Roman - ☐ **Centered:** All author information - ☐ **Author names:** Plain text (not bold) - ☐ **Affiliation:** On separate line below names - ☐ **Email:** Optional or as required by conference - ☐ **Leave blank line** after author section before abstract

Multiple Affiliations Example:

John Smith¹, Mary Johnson², and David Lee¹
¹Department of Computer Science, University A, City, Country
²Department of Engineering, University B, City, Country

Abstract

Format

- ☐ **Heading:** “Abstract” in bold, italic, 10-point
- ☐ **Text:** 10-point Times New Roman, italic
- ☐ **Length:** 150-250 words
- ☐ **Single paragraph:** No indentation
- ☐ **Centered heading:** Left-aligned text
- ☐ **Content:** Purpose, methods, results, conclusions

Example:

Abstract—This paper presents a comprehensive analysis of machine learning applications in network security. We propose a novel approach combining deep learning and traditional methods to detect intrusion attempts. The proposed system was tested on benchmark datasets and achieved 98.5% accuracy. Results indicate that hybrid approaches outperform single-method solutions by 15-20%. This research contributes to improving cybersecurity measures in enterprise networks.

Keywords

Format:

Keywords—machine learning, network security, intrusion detection, deep learning, cybersecurity

Guidelines: - ☐ **Heading:** “Keywords” in italic, followed by em dash (—) - ☐ **Font:** 10-point, italic - ☐ **Number:** 3-6 keywords - ☐ **Separator:** Commas between keywords - ☐ **Placement:** Immediately after abstract - ☐ **Leave blank line** after keywords before body text

Body Text Format

Section Headings

Level 1 (Major Sections): - ☐ **Format:** UPPERCASE, CENTERED, 10-POINT - ☐ **Numbering:** Roman numerals (I, II, III) - ☐ **Example:** I. INTRODUCTION

Level 2 (Subsections): - ☐ **Format:** Italic, left-aligned, 10-point - ☐ **Numbering:** Letters (A, B, C) - ☐ **Example:** A. Background and Motivation

Level 3 (Sub-subsections): - ☐ **Format:** Italic, indented, 10-point, run-in with text - ☐ **Numbering:** Numbers (1, 2, 3) - ☐ **Example:** 1) Implementation Details: Text continues...

Standard Sections

Typical IEEE paper structure:

1. **I. INTRODUCTION**
 - Problem statement
 - Motivation
 - Contributions
2. **II. RELATED WORK**
 - Previous research

- Comparison with existing approaches
- 3. **III. PROPOSED METHOD**
 - System architecture
 - Algorithm description
 - Implementation details
- 4. **IV. EXPERIMENTAL RESULTS**
 - Dataset description
 - Evaluation metrics
 - Performance analysis
- 5. **V. DISCUSSION**
 - Result interpretation
 - Limitations
 - Future work
- 6. **VI. CONCLUSION**
 - Summary
 - Main findings
 - Implications

ACKNOWLEDGMENT (optional, unnumbered section)

REFERENCES (unnumbered section)

Body Text Guidelines

Paragraphs

- ☐ **Font:** 10-point Times New Roman
- ☐ **Indentation:** 0.125 inch (3 mm) first line
- ☐ **Spacing:** Single-space within paragraphs
- ☐ **Alignment:** Justified
- ☐ **No extra space** between paragraphs

Equations

- ☐ **Centered** on separate line
- ☐ **Numbered** in parentheses on right side
- ☐ **Font:** Equation editor or Symbol font
- ☐ **Define all variables** after equation

Example:

The accuracy is calculated as:

$$\text{Accuracy} = (\text{TP} + \text{TN}) / (\text{TP} + \text{TN} + \text{FP} + \text{FN}) \quad (1)$$

where TP is true positives, TN is true negatives, FP is false positives, and FN is false negatives.

In-Text Citations

Format

- ☐ **Numbered citations:** [1], [2], [3]
- ☐ **Square brackets** around numbers
- ☐ **Sequential numbering** in order of appearance
- ☐ **Same number** for repeated citations
- ☐ **Multiple sources:** [1], [2] or [1]-[3]

Examples

Single citation:

Recent research in this area [1] has shown promising results.

Multiple citations:

Several studies [1], [2], [5] support this approach.

Range of citations:

Previous work [3]-[7] has explored similar methods.

Author mentioned:

Smith et al. [8] proposed a different approach.

No author name needed (most common in IEEE):

The method described in [9] provides better accuracy.

Figures

Figure Format

- ☐ **Caption below figure**
- ☐ **Font:** 8-point
- ☐ **Format:** “Fig. 1. Caption text here.”
- ☐ **Centered caption**
- ☐ **Sequential numbering** (Fig. 1, Fig. 2, etc.)
- ☐ **Reference in text:** “as shown in Fig. 1”

Example:

[Insert figure here]

Fig. 1. System architecture showing the main components and data flow between modules.

Figure Guidelines

- ☐ **High quality:** Minimum 300 DPI for images
 - ☐ **Readable:** Labels should be legible when scaled
 - ☐ **Black and white** or grayscale preferred
 - ☐ **Color:** Check if color allowed (additional fees may apply)
 - ☐ **Position:** Top or bottom of column preferred
-

Tables

Table Format

- ☐ **Caption above table**
- ☐ **Font:** 8-point
- ☐ **Format:** “TABLE I” (Roman numerals)
- ☐ **Title:** ALL CAPS below table number
- ☐ **Centered caption**
- ☐ **Reference in text:** “as shown in Table I”

Example:

TABLE I
PERFORMANCE COMPARISON OF DIFFERENT ALGORITHMS

Algorithm	Accuracy	Precision	Recall
Method A	95.2%	94.8%	96.1%
Method B	97.5%	97.2%	97.8%
Proposed	98.5%	98.3%	98.7%

Table Guidelines

- ☐ Horizontal lines only (top, bottom, below header)
- ☐ No vertical lines in table
- ☐ Font size: 8-point for table content
- ☐ Centered in column
- ☐ Span columns if needed for large tables

References Section

Format Rules

- ☐ Section title: “REFERENCES” (centered, uppercase)
- ☐ Font: 8-point Times New Roman
- ☐ Numbering: [1], [2], [3] in square brackets
- ☐ Hanging indent: 0.25 inch
- ☐ Single-space within entries
- ☐ No extra space between entries

Reference Formats

Journal Article:
[1] A. Smith and B. Jones, “Article title here,” *IEEE Trans. Computers*, vol. 68, no. 3, pp. 450-465, Mar. 2019.

Conference Paper:
[2] C. Lee, “Paper title here,” in *Proc. IEEE Int. Conf. Computer Vision*, 2020, pp. 1234-1240.

Book:
[3] D. Brown, *Book Title Here*, 3rd ed. New York: Wiley, 2021.

Book Chapter:
[4] E. Davis, “Chapter title,” in *Book Title*, F. Wilson, Ed. Boston: MIT Press, 2022, pp. 45-67.

Website:
[5] G. Martinez, “Page title,” Website Name, City, State, Year. [Online]. Available: <http://www.example.com>

Technical Report:
[6] H. Kim, “Report title,” Company/Institution, City, State, Tech. Rep. TR-123, 2023.

Standard:
[7] *IEEE Standard for Software Testing*, IEEE Std 829-2008, 2008.

Patent:
[8] J. Taylor, “Patent title,” U.S. Patent 7 123 456, Oct. 15, 2022.

Reference Element Abbreviations

Months:

Jan., Feb., Mar., Apr., May, June, July, Aug., Sept., Oct., Nov., Dec.

Common terms: - vol. = volume - no. = number - pp. = pages - ed. = edition - Ed. = Editor - Proc. = Proceedings - Conf. = Conference - Trans. = Transactions - J. = Journal - Symp. = Symposium

Special Formatting

Acronyms

- ☐ **First use:** Define in full, then acronym in parentheses
- ☐ **Example:** Artificial Intelligence (AI)
- ☐ **Subsequent use:** Use acronym only

Lists

- ☐ **Bulleted lists:** Use for non-sequential items
- ☐ **Numbered lists:** Use for sequential steps
- ☐ **Format:** Justified with hanging indent

Mathematical Symbols

- ☐ **Define all symbols** after first use
- ☐ **Use equation editor** for complex expressions
- ☐ **Italic for variables:** *x, y, n*
- ☐ **Roman for functions:** sin, cos, log

Sample Paper Layout

Page 1 Structure

Paper Title Here in 24-Point	
Author Names and Affiliations	
Abstract—Text of abstract goes here...	
Keywords—keyword1, keyword2, keyword3	
I. INTRODUCTION	
Body text in left column continues...	Body text in right column continues...
II. RELATED WORK	

Pre-Submission Checklist

Formatting

- ☐ Two-column format (except title/authors/abstract)
- ☐ 0.75 inch margins all sides
- ☐ 10-point Times New Roman for body
- ☐ Single-spaced text
- ☐ Justified alignment
- ☐ No page numbers (unless required)

Title Section

- ☐ Title in 24-point, bold, Title Case
- ☐ Authors and affiliations centered
- ☐ Abstract 150-250 words, italic
- ☐ Keywords included
- ☐ Blank lines in correct positions

Content

- ☐ Section headings formatted correctly
- ☐ All figures have captions below
- ☐ All tables have captions above
- ☐ Figures/tables numbered sequentially
- ☐ All figures/tables referenced in text

Citations

- ☐ Numbered citations [1], [2], [3]
- ☐ Sequential order of first appearance
- ☐ All citations have reference entries
- ☐ References formatted in IEEE style
- ☐ Reference section uses 8-point font

Technical Content

- ☐ Equations numbered and defined
- ☐ Acronyms defined on first use
- ☐ All symbols explained
- ☐ No grammatical errors
- ☐ Technical accuracy verified

Common IEEE Mistakes

- ☐ **Wrong column format** (single column throughout)
- ☐ Title/abstract single column, body two columns
- ☐ **Wrong font size** (12-point like other styles)
- ☐ Use 10-point for body text
- ☐ **Author-year citations** like APA (Smith, 2023)
- ☐ Use numbered citations [1]
- ☐ **Figure captions above figures**
- ☐ Figure captions go below figures
- ☐ **Table captions below tables**
- ☐ Table captions go above tables
- ☐ **Extra spacing between paragraphs**
- ☐ No extra space, just first-line indent

- ☐ **Page numbers included**
 - ☐ Usually no page numbers for conference submissions
 - ☐ **Reference format like APA/MLA**
 - ☐ Use IEEE reference format with abbreviations
-

Conference-Specific Requirements

Always check the specific conference website for: - ☐ Page length requirements (usually 4-6 pages) - ☐ Template files (often provided) - ☐ Submission format (PDF required) - ☐ Copyright forms - ☐ Blind review requirements (remove author names) - ☐ Color figure policies - ☐ Font embedding requirements - ☐ File size limitations

IEEE Paper Types

Conference Paper: 4-6 pages, peer-reviewed
Short Paper/Poster: 2-4 pages, preliminary results
Workshop Paper: Varies by workshop
Journal Paper: Longer, more detailed (8-12+ pages)

Tools and Resources

LaTeX Users:

- Use IEEE conference LaTeX templates - Download from IEEE website or conference site

MS Word Users:

- Use IEEE conference Word templates - Available on IEEE website

Online Tools: - IEEE Author Digital Tools - IEEE Template Selector

Official Resources: - IEEE Author Center: ieee.org/publications/authors - IEEE Reference Guide: ieee.org/documents/ieeecitationref.pdf

For complete IEEE formatting guidelines, visit the IEEE Author Center or consult your specific conference's author instructions.