IEEE Journal Article Template

General Formatting

Page Setup
 Paper size: US Letter (8.5 × 11 inches) Margins: 0.75-1 inch (check journal specifications) Columns: Two columns with 0.25 inch space between Font: Times New Roman, 10-point for body text Line spacing: Single-space Alignment: Justified Length: Typically 8-14 pages (varies by journal)
Key Differences: Journal vs Conference
 Length: Journals longer (8-14 pages vs 4-6) Detail: More comprehensive methodology and results Author bios: Required for journal articles Review process: More rigorous, longer timeline Structure: More formal, complete sections
Title Section
Paper Title
Font: 24-point Times New Roman, bold Capitalization: Title Case Position: Centered at top Spacing: Leave blank line after title
Example:
Deep Learning Approaches for Real-Time Network Intrusion Detection: A Comprehensive Study
Author Names and Affiliations
Format:
First Author, Member, IEEE, Second Author, Senior Member, IEEE, and Third Author, Fellow, IEEE
Abstract—The abstract text begins here. This section provides a comprehensive summary of the research including motivation, methodology, key results, and conclusions. Journal abstracts are typically 150-300 words and written as a single paragraph without indentation.
Author Guidelines: - □ Font: 10-point Times New Roman - □ Centered: Author names only - □ IEEE membership: Include grade if applicable - □ Abstract starts immediately after author line - □ No separate affiliation line at top (goes in footnote)

Title Footnote (First Page)
At bottom of first page:
Format:
Manuscript received Month Day, Year; revised Month Day, Year; accepted Month Day, Year. Date of publication Month Day, Year; date of current version Month Day, Year. (Corresponding Author: First Author.)
First Author is with the Department of Computer Science, University Name, City, State ZIP, Country (e-mail: author1@institution.edu).
Second Author is with the Department of Engineering, Institution Name, City, State ZIP, Country (e-mail: author2@institution.edu).
Digital Object Identifier 10.1109/XXX.2024.1234567
Guidelines: - □ Font: 8-point - □ Location: Bottom of first column, first page - □ Include: Dates, affiliations, emails, DOI - □ Corresponding author: Clearly identified - □ Funding acknowledgment: Can be included here or in Acknowledgment section
Abstract and Index Terms
Abstract Format
☐ Heading: "Abstract—" in italic with em dash ☐ Font: 10-point, italic ☐ Length: 150-300 words ☐ Content: Background, methods, results, conclusions ☐ Single paragraph: No indentation ☐ Spans both columns
Example:
Abstract—This paper presents a comprehensive investigation of deep learning techniques for real-time network intrusion detection. We propose a novel hybrid architecture combining convolutional neural networks (CNNs) and long short-term memory (LSTM) networks to achieve superior detection accuracy while maintaining low latency. The proposed system was evaluated on three benchmark datasets (NSL-KDD, UNSW-NB15, and CIC-IDS2017), achieving detection rates of 98.7%, 97.3%, and 99.1%, respectively, with false positive rates below 1.5%. Comparative analysis demonstrates that our approach outperforms existing state-of-the-art methods by 3-8% in accuracy while reducing processing time by 40%. These results indicate that hybrid deep learning architectures provide a practical solution for enterprise-scale network security applications.
Index Terms
Format:
<pre>Index Terms-Deep learning, intrusion detection, network security, convolutional neural networks, LSTM, cybersecurity.</pre>
Guidelines: - ☐ Heading: "Index Terms—" in italic with em dash - ☐ Font: 10-point, italic - ☐ Number: 5-8 terms - ☐ Separator: Commas and lowercase - ☐ IEEE Thesaurus: Use IEEE standard terminology when possible - ☐ Leave blank line after Index Terms before body

Body Structure

Standard Journal Article Sections

- I. INTRODUCTION Background and motivation Problem statement Literature gap Research objectives Paper organization Contributions clearly stated
- **II. RELATED WORK** Comprehensive literature review Critical analysis of existing approaches Comparison of methods Research gap identification
- **III. SYSTEM MODEL/PROBLEM FORMULATION** Mathematical formulation System assumptions Notation definitions Problem constraints
- IV. PROPOSED APPROACH/METHODOLOGY Detailed algorithm description Architecture design Implementation details Theoretical analysis
- V. EXPERIMENTAL SETUP Dataset description Evaluation metrics Baseline methods Implementation environment Parameter settings
- **VI. RESULTS AND ANALYSIS** Performance evaluation Comparative analysis Statistical significance tests Ablation studies Visualization of results
- **VII. DISCUSSION** Result interpretation Theoretical implications Practical applications Limitations Threats to validity
- $\boldsymbol{VIII.}$ $\boldsymbol{CONCLUSION}$ Summary of contributions Key findings Future research directions

APPENDIX (if needed)

ACKNOWLEDGMENT (optional)

REFERENCES

Author Biographies

I. INTRODUCTION

Section Headings

Level 1: Major Sections

	Format: Roman numerals, UPPERCASE, centered Font: 10-point, small caps or all caps Example: I. INTRODUCTION
Le'	vel 2: Subsections
	Background and Motivation
	Format: Letters, italic, left-aligned Font: 10-point, italic Example: A. Background and Motivation
Le'	vel 3: Sub-subsections
)	Implementation Details: Text continues here.

Format: Numbers, italic, indented, run-in

In-Text Citations	
Format	
 Numbered: [1], [2], [3] Sequential order of first appearance Square brackets No author names in citations (typically) 	
Examples	
Standard citation: Recent advances in deep learning [1], [2] have enabled	
Range of citations: Multiple studies [5]-[10] have investigated this problem.	
With author mention (less common in IEEE): Smith et al. [12] proposed an alternative approach.	
Multiple non-sequential: Various methods [3], [7], [11], [15] have been developed.	
Equations	
Format	
☐ Centered on separate line ☐ Numbered sequentially in parentheses (right-aligned) ☐ Use equation editor for complex expressions ☐ Define all variables immediately after	
Example:	
The loss function is defined as:	
$L = 1/N \sum_{i=1}^{N} (y_i - \hat{y}_i)^2$	(1)
where N is the number of samples, y_{i} is the true l is the predicted value for the i-th sample.	abel, and ŷ _i
Multi-line equations:	
$f(x) = a_0 + a_1 x + a_2 x^2$	(2)
+ a ₃ X ³ + a ₄ X ⁴	
Figures	

reprocessing ification network, optional
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Bold indicates

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Algorithm 1: Network Intrusion Detection
Input: Network traffic data X, threshold \boldsymbol{\theta}
Output: Classification result y
1: Initialize model parameters
2: for each sample x_{\mathtt{i}} in X do
      Extract features f<sub>i</sub> = extract(x<sub>i</sub>)
3:
4:
      Compute score s_i = classify(f_i)
5:
      if s_i > \theta then
6:
        y_i = 1 (intrusion detected)
         y_i = 0 (normal traffic)
8:
      end if
9:
10: end for
11: return y
Guidelines: - □ Font: 9-point monospace or regular - □ Indentation: Show structure
clearly - □ Line numbers: Optional but helpful - □ Caption: "Algorithm 1:" followed by
title
References Section
Format
Title: "REFERENCES" (centered, uppercase)
Font: 8-point Times New Roman
☐ Numbering: [1], [2], [3]
☐ Hanging indent: 0.25 inch
Single-space within entries
Alphabetical: No (use order of citation)
IEEE Journal Reference Formats
Journal Article (most common):
[1] A. B. Smith, C. D. Jones, and E. F. Brown, "Article title in sentence case," IEEE
Trans. Pattern Anal. Mach. Intell., vol. 42, no. 5, pp. 1234-1245, May 2020, doi:
10.1109/TPAMI.2020.1234567.
Journal Article (early access):
[2] M. Johnson, "Article title," IEEE Trans. Neural Netw. Learn. Syst., early access,
Jan. 15, 2024, doi: 10.1109/TNNLS.2024.1234567.
Conference Paper:
[3] P. Lee and Q. Chen, "Paper title," in Proc. IEEE Conf. Comput. Vis. Pattern Recognit.
(CVPR), Jun. 2023, pp. 5678-5686.
[4] R. Taylor, Deep Learning Fundamentals, 2nd ed. Cambridge, MA, USA: MIT Press,
2022.
Book Chapter:
[5] S. Williams, "Chapter title," in Book Title, T. Davis, Ed. New York, NY, USA: Wiley,
2021, ch. 3, pp. 45-78.
Preprint/arXiv:
[6] K. Martinez and L. Garcia, "Paper title," arXiv:2301.12345, 2023.
[7] National Institute of Standards and Technology, "Cybersecurity framework," NIST,
Gaithersburg, MD, USA, 2023. [Online]. Available: https://www.nist.gov/cyberframework
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Standard:

[8] IEEE Standard for Software Testing, IEEE Std 829-2008, 2008, doi: 10.1109/IEEESTD.2008.4578383. Thesis/Dissertation: [9] A. Thompson, "Dissertation title," Ph.D. dissertation, Dept. Comput. Sci., Stanford Univ., Stanford, CA, USA, 2022. **Technical Report:** [10] J. Wilson et al., "Report title," Google Research, Mountain View, CA, USA, Tech. Rep. TR-2023-05, 2023. **IEEE Journal Title Abbreviations** Common abbreviations: - IEEE Trans. = IEEE Transactions on - Proc. = Proceedings -Conf. = Conference - J. = Journal - Mag. = Magazine - Lett. = Letters - Commun. = Communications - Comput. = Computer/Computing - Syst. = Systems - Technol. = Technology Refer to IEEE Reference Guide for complete journal abbreviations. **Appendix Format** APPENDIX PROOF OF THEOREM 1 The proof proceeds as follows... Guidelines: - □ Title: "APPENDIX" centered, uppercase - □ Multiple appendices: Use A, B, C - APPENDIX A: Title Here - APPENDIX B: Another Title - \Box Placed: Before Acknowledgment section -

Content: Proofs, derivations, supplementary material **Acknowledgment Section** Format: ACKNOWLEDGMENT The authors would like to thank Dr. Jane Doe for valuable discussions and feedback on the manuscript. This work was

supported in part by the National Science Foundation under

Guidelines: - □ **Title:** "ACKNOWLEDGMENT" (no 's', centered, uppercase) - □ **Unnumbered section** - □ **Placed:** After Conclusion, before References - □ **Content:** Funding, contributors, computational resources - □ **Be specific:** Include grant numbers

Author Biographies

Format with Photo

Grant No. 1234567.

i i	Author (Member, IEEE) received the B.S. in computer science from University A	
i i	· · · · · · · · · · · · · · · · · · ·	
degree	III COMPULER SCIENCE TROM UNIVERSITY A	
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	5. degree from University B in 2017, and the	
Ph.D. degree Tro	om University C in 2022.	
He is currently	an Assistant Professor with the Department of	
	, University D. His research interests include	
•	g, network security, and artificial intelligence.	
machine real ning	s, network security, and artificial intelligence.	
Dr. Author is a	member of ACM and has served as a reviewer for	
	nferences and journals.	
Severul lett co.	Trefences and Joan Mars.	
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	0 words per author	
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Journal-Specific Requirements Before submission, verify: - □ Target journal's author guidelines - □ Template version (LaTeX vs Word) - □ Page length limits - □ Figure/table limits - □ Supplementary material policies - □ Copyright forms - □ Open access options - □ Conflict of interest statement - □ Data availability statement - □ Ethics approval (if applicable) Major IEEE Journals (Examples) Computer Science: - IEEE Trans. Pattern Anal. Mach. Intell. (TPAMI) - IEEE Trans. Neural Netw. Learn. Syst. (TNNLS) - IEEE Trans. Comput. (TC)

Electrical Engineering: - IEEE Trans. Power Electron. (TPEL) - IEEE Trans. Circuits Syst. (TCAS) - IEEE Trans. Signal Process. (TSP)

Communications: - IEEE Trans. Wireless Commun. (TWC) - IEEE Trans. Commun. (TCOM) - IEEE J. Sel. Areas Commun. (JSAC)

Each journal has specific submission guidelines - always check!

Resources

IEEE Author Center:

https://journals.ieeeauthorcenter.ieee.org/

IEEE Reference Guide:

https://ieee-dataport.org/documents/ieee-reference-guide

 $\textbf{Templates:} \ - \ LaTeX: \ Available \ on \ IEEE \ website \ and \ Overleaf \ - \ Word: \ Download \ from \ IEEE \ Author \ Center$

Tools: - IEEE PDF eXpress: Check PDF compliance - IEEE Collaboration platform - ScholarOne: Manuscript submission system

Always consult your target journal's specific author instructions before final submission. Requirements may vary between IEEE publications.