# IEEE Reference Examples Handbook

## How to Use This Handbook

**Purpose:** Quick reference for formatting IEEE citations

**Organization:** Sources organized by type with multiple examples

**Format:** [#] followed by complete reference entry

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## Basic IEEE Reference Format

### Essential Elements (in order)

1. **[#]** Reference number
2. **Author(s):** Initials. Last name (up to 6 authors, then et al.)
3. **"Title,"** in sentence case with quotes (for articles/chapters)
4. ***Journal Name***, abbreviated and italicized
5. **vol. X,** volume number
6. **no. Y,** issue number
7. **pp. XXX-YYY,** page range
8. **Month Year.** publication date
9. **doi: XX** (if available)

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## JOURNAL ARTICLES

### Standard Journal Article

[1] J. Smith, "Machine learning for network security," *IEEE Trans. Netw.*, vol. 28, no. 4, pp. 1234-1250, Aug. 2020.

[2] M. Johnson and P. Lee, "Deep neural networks for image classification," *IEEE Trans. Pattern Anal. Mach. Intell.*, vol. 42, no. 10, pp. 2456-2470, Oct. 2020.

[3] A. Brown, C. Garcia, and R. Taylor, "Quantum computing applications," *Nature*, vol. 580, pp. 345-350, Apr. 2020.

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### Journal Article with DOI

[4] K. Williams et al., "Cloud computing security challenges," *IEEE Trans. Cloud Comput.*, vol. 9, no. 2, pp. 567-580, Apr.-Jun. 2021, doi: 10.1109/TCC.2021.1234567.

[5] S. Chen and L. Martinez, "5G network optimization," *IEEE Wireless Commun.*, vol. 28, no. 1, pp. 45-52, Feb. 2021, doi: 10.1109/MWC.2021.7654321.

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### Early Access (Online Before Print)

[6] D. Anderson, "Edge computing for IoT," *IEEE Internet Things J.*, early access, Jan. 15, 2024, doi: 10.1109/JIOT.2024.1234567.

[7] T. Robinson and M. White, "Blockchain security," *IEEE Trans. Inf. Forensics Security*, early access, doi: 10.1109/TIFS.2024.7654321.

### Journal Article with Article Number

[8] H. Kim, "Artificial intelligence ethics," *Sci. Rep.*, vol. 12, no. 1, Art. no. 12345, Dec. 2022, doi: 10.1038/s41598-022-12345-6.

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### More Than Six Authors

[9] J. Thompson et al., "Large-scale data analysis," *IEEE Trans. Big Data*, vol. 8, no. 3, pp. 678-695, Sep. 2022.

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### Special Issue Article

[10] P. Davis, "Smart grid technologies," *IEEE Trans. Smart Grid*, vol. 13, no. 4, pp. 3012-3025, Jul. 2022, Special Issue on Grid Modernization.

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## CONFERENCE PAPERS

### Standard Conference Paper

[11] R. Miller and S. Jackson, "Real-time object detection," in *Proc. IEEE Conf. Comput. Vis. Pattern Recognit. (CVPR)*, Jun. 2023, pp. 1234-1242.

[12] A. Wilson, "Autonomous vehicle navigation," in *Proc. IEEE Int. Conf. Robot. Autom. (ICRA)*, May 2023, pp. 5678-5686.

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### Conference Paper with Location

[13] K. Lee, "Cybersecurity frameworks," in *Proc. IEEE Symp. Security Privacy*, San Francisco, CA, USA, May 2023, pp. 234-245.

[14] M. Brown, "Wireless sensor networks," in *Proc. IEEE Int. Conf. Commun. (ICC)*, Rome, Italy, Jun. 2023, pp. 1000-1008.

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### Conference Paper with DOI

[15] L. Garcia and T. Nguyen, "Neural architecture search," in *Proc. Int. Conf. Mach. Learn. (ICML)*, 2023, pp. 4567-4575, doi: 10.5555/icml2023.123.

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### Conference Paper with Paper Number

[16] D. Park, "Quantum machine learning," in *Proc. Adv. Neural Inf. Process. Syst. (NeurIPS)*, 2023, Paper 1234.

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### Workshop Paper

[17] E. Martinez, "Transfer learning techniques," in *Proc. IEEE Conf. Comput. Vis. Pattern Recognit. Workshops (CVPRW)*, Jun. 2023, pp. 100-108.

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### Poster/Short Paper

[18] F. Chen, "Preliminary results on reinforcement learning," in *Proc. AAAI Conf. Artif. Intell.*, 2023, pp. 15678-15680, Poster Session.

# BOOKS

### Complete Book

[19] J. Taylor, *Deep Learning Fundamentals*, 2nd ed. Cambridge, MA, USA: MIT Press, 2022.

[20] M. Davis and R. Williams, *Computer Networks: A Systems Approach*, 6th ed. San Francisco, CA, USA: Morgan Kaufmann, 2021.

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### Book with Editor(s)

[21] P. Anderson, Ed., *Advances in Machine Learning*. New York, NY, USA: Springer, 2023.

[22] S. Lee and K. Kim, Eds., *Handbook of Robotics*, 3rd ed. Berlin, Germany: Springer, 2022.

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### E-book

[23] A. Thompson, *Cloud Computing Architecture*. Boston, MA, USA: Pearson, 2023. [Online]. Available: https://www.pearson.com/ebook

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### Book in a Series

[24] R. Brown, *Neural Networks and Deep Learning*, ser. Artificial Intelligence Series. London, U.K.: Wiley, 2022.

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# BOOK CHAPTERS

### Chapter in Edited Book

[25] D. Garcia, "Convolutional neural networks," in *Deep Learning Handbook*, J. Smith, Ed. New York, NY, USA: Wiley, 2023, ch. 5, pp. 89-125.

[26] L. Martinez and K. Wilson, "Blockchain applications," in *Emerging Technologies*, P. Davis and R. Lee, Eds. Cambridge, MA, USA: MIT Press, 2022, pp. 200-235.

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### Chapter with Multiple Editors

[27] S. Chen, "Internet of Things security," in *IoT Systems and Applications*, M. Brown, T. White, and A. Green, Eds. Berlin, Germany: Springer, 2023, ch. 12, pp. 345-378.

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### Chapter with Edition

[28] H. Kim, "Software testing methods," in *Software Engineering*, 4th ed., J. Johnson, Ed. Upper Saddle River, NJ, USA: Prentice Hall, 2021, ch. 8, pp. 156-189.

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# TECHNICAL REPORTS

### Corporate/Institutional Report

[29] J. Miller et al., "Artificial intelligence research directions," Google Research, Mountain View, CA, USA, Tech. Rep. TR-2023-15, May 2023.

[30] S. Anderson, "Network security analysis," Microsoft Research, Redmond, WA, USA, Tech. Rep. MSR-TR-2023-42, Mar. 2023.

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### Government Report

[31] "National cybersecurity strategy," Nat. Inst. Standards Technol., Gaithersburg, MD, USA, NIST Tech. Rep. 8420, 2023.

[32] U.S. Dept. Defense, "Artificial intelligence strategy," Pentagon, Washington, DC, USA, DoD Rep. 2023-AI-01, Feb. 2023.

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### University Report

[33] T. Robinson, "Machine learning benchmarks," Stanford Univ., Stanford, CA, USA, Tech. Rep. STAN-CS-23-01, 2023.

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## THESES AND DISSERTATIONS

### Ph.D. Dissertation

[34] A. Wilson, "Deep reinforcement learning for robotics," Ph.D. dissertation, Dept. Comput. Sci., MIT, Cambridge, MA, USA, 2022.

[35] K. Martinez, "Quantum algorithms for optimization," Ph.D. dissertation, School Eng., Stanford Univ., Stanford, CA, USA, 2023.

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### Master's Thesis

[36] L. Chen, "Network intrusion detection using machine learning," M.S. thesis, Dept. Elect. Eng., Carnegie Mellon Univ., Pittsburgh, PA, USA, 2023.

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### Dissertation in Database

[37] R. Taylor, "Blockchain consensus mechanisms," Ph.D. dissertation, Univ. California, Berkeley, CA, USA, 2022. [Online]. Available: ProQuest, Dissertation No. 29123456.

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## PREPRINTS

### arXiv Papers

[38] M. Brown and S. Lee, "Transformer architectures for NLP," arXiv:2301.12345, 2023.

[39] D. Garcia et al., "Self-supervised learning methods," arXiv:2302.67890v2, 2024. [Online]. Available: https://arxiv.org/abs/2302.67890

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### Other Preprint Servers

[40] K. Wilson, "Quantum computing algorithms," bioRxiv:2023.01.123456, 2023, doi:

10.1101/2023.01.123456.

# ONLINE SOURCES

### Website with Author and Date

[41] National Institute of Standards and Technology, "Cybersecurity framework," NIST, Gaithersburg, MD, USA, 2023. [Online]. Available: https://www.nist.gov/cyberframework

[42] World Health Organization, "Digital health guidelines," WHO, Geneva, Switzerland, 2024. [Online]. Available: https://www.who.int/digital-health

### Website with Corporate Author

[43] IEEE Computer Society, "Software engineering standards," 2023. [Online]. Available: https://www.computer.org/standards

### Webpage No Author

[44] "Machine learning tutorial," TensorFlow Documentation, 2024. [Online]. Available: https://www.tensorflow.org/tutorials

### Webpage No Date

[45] J. Smith, "Python programming guide," Developer Resources. [Online]. Available: https://www.example.com/python-guide. Accessed: Jan. 15, 2024.

### Blog Post

[46] M. Johnson, "Recent advances in AI," Google AI Blog, Dec. 10, 2023. [Online]. Available: https://ai.googleblog.com/advances-ai

### Online Video/Tutorial

[47] A. Davis, "Introduction to deep learning," YouTube, Nov. 15, 2023. [Online]. Available: https://www.youtube.com/watch?v=abc123xyz

# STANDARDS

### IEEE Standard

[48] *IEEE Standard for Software Testing*, IEEE Std 829-2008, 2008, doi: 10.1109/IEEESTD.2008.4578383.

[49] *IEEE Standard for Ethernet*, IEEE Std 802.3-2022, 2022.

### ISO Standard

[50] *Information Technology—Security Techniques—Information Security Management Systems*, ISO/IEC 27001:2022, 2022.

### ANSI Standard

[51] *American National Standard for Programming Language C*, ANSI X3.159-1989, 1989.

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## PATENTS

### U.S. Patent

[52] J. Smith, "Method and apparatus for machine learning," U.S. Patent 10 123 456, Nov. 5, 2023.

[53] M. Brown and K. Lee, "System for data encryption," U.S. Patent 11 234 567 B2, Jan. 10, 2024.

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### International Patent

[54] A. Garcia, "Wireless communication method," Patent WO 2023/123456 A1, Jun. 15, 2023.

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### Patent Application

[55] L. Wilson, "Artificial intelligence processor," U.S. Patent Application 17/123,456, filed Mar. 5, 2023.

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## SOFTWARE AND CODE

### Software Program

[56] "MATLAB," ver. R2023b, MathWorks, Natick, MA, USA, 2023.

[57] "Python," ver. 3.11, Python Software Foundation, 2023. [Online]. Available: https://www.python.org

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### Software Library/Package

[58] M. Abadi et al., "TensorFlow: Large-scale machine learning on heterogeneous systems," 2015. [Online]. Available: https://www.tensorflow.org

[59] A. Paszke et al., "PyTorch: An imperative style, high-performance deep learning library," 2019. [Online]. Available: https://pytorch.org

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### GitHub Repository

[60] J. Developer, "Deep learning models repository," GitHub, 2023. [Online]. Available: https://github.com/username/repo

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### Code from Paper

[61] K. Chen, "Implementation code for neural network," 2023. [Online]. Available: https://github.com/researcher/nn-implementation

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# DATASETS

### Dataset with DOI

[62] M. Smith, “ImageNet dataset,” IEEE DataPort, 2023, doi: 10.21227/dataset.123.

[63] A. Johnson, “Network traffic dataset,” Zenodo, 2023, doi: 10.5281/zenodo.1234567.

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### Dataset Repository

[64] L. Brown, “COVID-19 research dataset,” Kaggle, 2023. [Online]. Available: https://www.kaggle.com/dataset/covid19

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### Research Data

[65] K. Wilson et al., “Experimental data for quantum computing,” Dryad Digital Repository, 2023, doi: 10.5061/dryad.abc123.

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# DATABASES

### Article from Database

[66] R. Taylor, “Machine learning applications,” *IEEE Trans. Comput.*, vol. 70, no. 5, pp. 678-695, May 2021. [Online]. Available: IEEE Xplore, doi: 10.1109/TC.2021.1234567.

[67] S. Garcia, “Network security protocols,” *ACM Comput. Surv.*, vol. 54, no. 3, Art. 67, 2022. [Online]. Available: ACM Digit. Lib., doi: 10.1145/3456789.

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# PRESENTATIONS AND TALKS

### Conference Presentation

[68] M. Anderson, “Future of AI,” presented at the Int. Conf. Artif. Intell., Paris, France, Jul. 2023.

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### Invited Talk

[69] J. Williams, “Quantum computing breakthroughs,” presented at the IEEE Quantum Week, Denver, CO, USA, Sep. 2023. [Online]. Available: https://www.ieee-quantum-week.org/talks

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### Webinar

[70] K. Lee, “Introduction to blockchain,” IEEE Webinar Series, Online, Mar. 15, 2024.

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# MULTIMEDIA

### Video Recording

[71] A. Chen, “Machine learning tutorial,” IEEE TV, 2023. [Online]. Available: https://ieeetv.ieee.org/ml-tutorial

### Podcast

[72] "The future of technology," IEEE Spectrum Podcast, ep. 45, Dec. 2023. [Online]. Available: https://spectrum.ieee.org/podcast/ep45

## NEWSPAPERS AND MAGAZINES

### Newspaper Article (Online)

[73] J. Markoff, "Advances in artificial intelligence," *New York Times*, Nov. 15, 2023. [Online]. Available: https://www.nytimes.com/ai-advances

### Magazine Article

[74] M. Harris, "Quantum computing revolution," *IEEE Spectr.*, vol. 60, no. 11, pp. 28-35, Nov. 2023.

## SOCIAL MEDIA

### Tweet/X Post

[75] @IEEE, "New quantum computing standard released," X (formerly Twitter), Nov. 20, 2023. [Online]. Available: https://x.com/IEEE/status/1234567890

### LinkedIn Post

[76] M. Brown, "Thoughts on AI ethics," LinkedIn, Dec. 1, 2023. [Online]. Available: https://www.linkedin.com/posts/mbrown_ai-ethics

## UNPUBLISHED WORKS

### Manuscript Submitted for Publication

[77] K. Davis, "Novel cryptographic methods," submitted for publication.

[78] L. Martinez, "Deep learning for medical imaging," to be published.

### Unpublished Work

[79] R. Wilson, "Preliminary results on quantum algorithms," unpublished.

### Work Accepted, Not Yet Published

[80] S. Chen, "5G network optimization," *IEEE Trans. Wireless Commun.*, to be published, doi: 10.1109/TWC.2024.1234567.

## CORRESPONDENCE

### Personal Communication

[81] J. Smith, private communication, Jan. 2024.

[82] M. Johnson (MIT, Cambridge, MA, USA), email communication, Feb. 15, 2024.

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## SPECIAL CASES

### No Author

[83] “Machine learning fundamentals,” Tech. Rep., Stanford Univ., Stanford, CA, USA, 2023.

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### No Date

[84] A. Brown, “Software development guide,” n.d. [Online]. Available: https://www.example.com/guide

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### Multiple Volumes

[85] R. Garcia, *Computer Architecture*, vol. 2. Boston, MA, USA: Addison-Wesley, 2022.

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### Reprint/Translation

[86] A. Turing, “Computing machinery and intelligence,” *Mind*, vol. 59, no. 236, pp. 433-460, 1950, Reprinted in *The Philosophy of Artificial Intelligence*, M. Boden, Ed. Oxford, U.K.: Oxford Univ. Press, 1990, pp. 40-66.

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### Forthcoming Publication

[87] K. Wilson, “Quantum error correction,” *Nature Phys.*, to be published in 2024.

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## REFERENCE LIST FORMATTING

### Complete Example Reference Section

```
REFERENCES

[1] J. Smith and M. Johnson, "Machine learning applications,"
    *IEEE Trans. Pattern Anal. Mach. Intell.*, vol. 42, no. 5,
    pp. 1234-1250, May 2020.

[2] A. Brown, "Deep neural networks," in *Proc. IEEE Conf.
    Comput. Vis. Pattern Recognit. (CVPR)*, Jun. 2023,
    pp. 5678-5686.

[3] K. Lee, *Artificial Intelligence: A Modern Approach*, 4th ed.
    Upper Saddle River, NJ, USA: Prentice Hall, 2022.

[4] R. Garcia, "Quantum computing survey," arXiv:2301.12345,
    2023.

[5] National Institute of Standards and Technology,
    "Cybersecurity framework," NIST, Gaithersburg, MD, USA,
    2023. [Online]. Available: https://www.nist.gov/framework
```

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## Quick Formatting Checklist

**For every reference:** - ☐ Number in order of citation [1], [2], [3] - ☐ Authors: Initials. Last name - ☐ Up to 6 authors listed, then et al. - ☐ Article/chapter titles in "quotes" - ☐ Journal/book titles in *italics* - ☐ Sentence case for article titles - ☐ Abbreviated journal names - ☐ vol. X, no. Y, pp. XXX-YYY format - ☐ Month Year (abbreviated months) - ☐ DOI when available - ☐ [Online]. Available: for web sources - ☐ Hanging indent (0.25 inch) - ☐ 8-point font for papers

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## Common Mistakes to Avoid

 **Wrong:** Smith, John
 **Correct:** J. Smith

 **Wrong:** (Smith, 2023)
 **Correct:** [1]

 **Wrong:** IEEE Transactions on Pattern Analysis and Machine Intelligence
 **Correct:** *IEEE Trans. Pattern Anal. Mach. Intell.*

 **Wrong:** "The Impact Of Machine Learning"
 **Correct:** "The impact of machine learning"

 **Wrong:** pages 123-145
 **Correct:** pp. 123-145

 **Wrong:** November 2023
 **Correct:** Nov. 2023

 **Wrong:** Available at:
 **Correct:** [Online]. Available:

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