

GUIDE FOR REFERENCE

SCIENCE AND TECHNOLOGY

UI Proceedings on Science and Technology is using IEEE citation reference with the citations that are numbered consecutively with numbers within brackets. IEEE Publications uses *Webster's College Dictionary*, 4th Edition. For guidance on grammar and usage not included in this manual, please consult *The Chicago Manual of Style*, published by the University of Chicago Press. Footnotes or other words and phrases that are not part of the reference format do not belong on the reference list.

The followings are the formats and examples of the references:

Book

Format of Reference:

- [1] J. K. Author, "Title of chapter in the book," in *Title of His Published Book*, xth ed. City of Publisher, Country if not USA: Abbrev. of Publisher, year, ch. x, sec. x, pp. xxx-xxx.

NOTE: Use *et al.* when three or more names are given.

Examples of References:

- [1] B. Klaus and P. Horn, *Robot Vision*. Cambridge, MA: MIT Press, 1986.
[2] L. Stein, "Random patterns," in *Computers and You*, J. S. Brake, Ed. New York: Wiley, 1994, pp. 55-70.
[3] R. L. Myer, "Parametric oscillators and nonlinear materials," in *Nonlinear Optics*, vol. 4, P. G. Harper and B. S. Wherret, Eds. San Francisco, CA: Academic, 1977, pp. 47-160.
[4] M. Abramowitz and I. A. Stegun, Eds., *Handbook of Mathematical Functions* (Applied Mathematics Series 55). Washington, DC: NBS, 1964, pp. 32-33.
[5] E. F. Moore, "Gedanken-experiments on sequential machines," in *Automata Studies* (Ann. of Mathematical Studies, no. 1), C. E. Shannon and J. McCarthy, Eds. Princeton, NJ: Princeton Univ. Press, 1965, pp. 129-153.
[6] Westinghouse Electric Corporation (Staff of Technology and Science, Aerospace Div.), *Integrated Electronic Systems*. Englewood Cliffs, NJ: Prentice-Hall, 1970.
[7] M. Gorkii, "Optimal design," *Dokl. Akad. Nauk SSSR*, vol. 12, pp. 111-122, 1961 (Transl.: in L. Pontryagin, Ed., *The Mathematical Theory of Optimal Processes*. New York: Interscience, 1962, ch. 2, sec. 3, pp. 127-135).
[8] G. O. Young, "Synthetic structure of industrial plastics," in *Plastics*, vol. 3, *Polymers of Hexadromicon*, J. Peters, Ed., 2nd ed. New York: McGraw-Hill, 1964, pp. 15-64

Handbooks

Format of Reference:

- [1] *Name of Manual/Handbook*, x ed., Abbrev. Name of Co., City of Co., Abbrev. State, year, pp. xx-xx.

Examples of Reference:

- [1] *Transmission Systems for Communications*, 3rd ed., Western Electric Co., Winston-Salem, NC, 1985, pp. 44-60.

- [2] *Motorola Semiconductor Data Manual*, Motorola Semiconductor Products Inc., Phoenix, AZ, 1989.
- [3] *RCA Receiving Tube Manual*, Radio Corp. of America, Electronic Components and Devices, Harrison, NJ, Tech. Ser. RC-23, 1992.

Reports

The format for citing reports is to place the name and location of the company or institution after the author and title, and to give the report number and date at the end of the reference.

Format of Reference:

- [1] J. K. Author, "Title of report," Abbrev. Name of Co., City of Co., Abbrev. State, Rep. xxx, year.

Example of Reference:

- [1] E. E. Reber *et al.*, "Oxygen absorption in the earth's atmosphere," Aerospace Corp., Los Angeles, CA, Tech. Rep. Angeles, CA, Tech. Rep. TR-0200 (4230-46)-3, Nov. 1988.
- [2] J. H. Davis and J. R. Cogdell, "Calibration program for the 16-foot antenna," Elect. Eng. Res. Lab., Univ. Texas, Austin, Tech. Memo. NGL-006-69-3, Nov. 15, 1987.
- [3] R. E. Haskell and C. T. Case, "Transient signal propagation in lossless isotropic plasmas," USAF Cambridge Res. Labs., Cambridge, MA, Rep. ARCRL-66-234 (II), 1994, vol. 2.
- [4] M. A. Brusberg and E. N. Clark, "Installation, operation, and data evaluation of an oblique-incidence ionosphere sounder system," in "Radio Propagation Characteristics of the Washington-Honolulu Path," Stanford Res. Inst., Stanford, CA, Contract NOBSR-87615, Final Rep., Feb. 1995, vol. 1.
- [5] P. Diamant and W. L. Lupatkin, "V-line surface-wave radiation and scanning," Dept. Elect. Eng., Columbia Univ., New York, Sci. Rep. 85, Aug. 1991

Conference Technical Article

The format to citing technical articles published in conference proceedings is to list the author/s and title of the paper, followed by the name (and location, if given) of the conference publication *in italics* using the following standard abbreviations.

<i>When the word below appears in the conference publication title</i>	<i>abbreviate to</i>	<i>When the word below appears in the conference publication title</i>	<i>abbreviate to</i>
Annals	Ann.	Proceedings	Proc.
Annual	Annu.	Record	Rec.
Colloquium	Colloq.	Symposium	Symp.
Conference	Conf.	Technical Digest	Tech. Dig.
Congress	Congr.	Technical Paper	Tech. Paper
Convention	Conv.	First	1 st
Digest	Dig.	Second	2 nd
Exposition	Expo.	Third	3 rd
International	Int.	Fourth/nth	... 4 th /nth
National	Nat.		

Format of Reference:

- [1] J. K. Author, "Title of paper," in *Unabbreviated Name of Conf.*, City of Conf., Abbrev. State (if given), year, pp. xxx-xxx.

For an electronic conference article when there are no page numbers:

- [1] J. K. Author [two authors: J. K. Author and A. N. Writer] [three or more authors: J. K. Author et al.], "Title of Article," in [Title of Conf. Record as it appears on the copyright page], [copyright year] © [IEEE or applicable copyright holder of the Conference Record]. Doi: [DOI number]

For an unpublished paper presented at a conference:

- [1] J. K. Author, "Title of paper," presented at the Unabbrev. Name of Conf., City of Conf., Abbrev. State, year.

Online Sources

The format for citing online sources is to follow the standard citation for the source given previously and add the Digital Object Identifier (DOI) at the end of the citation, or add the DOI in place of page numbers if the source does not have page number.

FTP

Format of Reference:

- [1] J. K. Author. (year). *Title* (edition) [Type of medium]. Available FTP: Directory: File:

Example of Reference:

- [1] R. J. Vidmar. (1994). *On the use of atmospheric plasmas as electromagnetic reflectors* [Online]. Available FTP: atmnext.usc.edu Directory: pub/etext/1994 File: atmosplasma.txt

Www

Format of Reference:

- [1] J. K. Author. (year, month day). *Title* (edition) [Type of medium]. Available: http://www.(URL)

Example of Reference:

- [1] J. Jones. (1991, May 10). *Networks* (2nd ed.) [Online]. Available: http://www.atm.com

Email

Format of Reference:

- [1] J. K. Author. (Year, month day). *Title* (edition) [Type of medium]. Available e-mail: Message:

Example of Reference:

- [1] S. H. Gold. (1995, Oct. 10). *Inter-Network Talk* [Online]. Available e-mail: COMSERVE@RPIECS Message: Get NETWORK TALK

Telnet**Format of Reference:**

[1] J. K. Author. (year, month day). *Title* (edition) [Type of medium]. Available Telnet: Directory: File

Example of Reference:

[1] V. Meligna. (1993, June 11). *Periodic table of elements* [Online]. Available Telnet: Library.CMU.edu Directory:
Libraries/Reference Works File: Periodic Table of Elements

Patents, Standards, Theses, Unpublished***Patent*****Format of Reference:**

[1] J. K. Author, "Title of patent," U.S. Patent x xxx xxx, Abbrev. Month, day, year.

Example for Reference:

[1] J. P. Wilkinson, "Nonlinear resonant circuit devices," U.S. Patent 3 624 125, July 16, 1990.

NOTE: Use "issued date" if several dates are given

Standard**Format of Reference:**

[1] *Title of Standard*, Standard number, date.

Example for Reference:

- [1] *IEEE Criteria for Class IE Electric Systems*, IEEE Standard 308, 1969.
- [2] *Letter Symbols for Quantities*, ANSI Standard Y10.5-1968.

Theses (M.S.) and Dissertations (Ph.D.)**Format of Reference:**

- [1] J. K. Author, "Title of thesis," M.S. thesis, Abbrev. Dept., Abbrev. Univ., City of Univ., Abbrev. State, year.
- [2] J. K. Author, "Title of dissertation," Ph.D. dissertation, Abbrev. Dept., Abbrev. Univ., City of Univ., Abbrev. State, year.

Example for Reference:

- [1] J. O. Williams, "Narrow-band analyzer," Ph.D. dissertation, Dept. Elect. Eng., Harvard Univ., Cambridge, MA, 1993.
- [2] N. Kawasaki, "Parametric study of thermal and chemical nonequilibrium nozzle flow," M.S. thesis, Dept. Electron.Eng., Osaka Univ., Osaka, Japan, 1993.
- [3] N. M. Amer, "The effects of homogeneous magnetic fields on developments of tribolium confusum," Ph.D. dissertation, Radiation Lab., Univ. California, Berkeley, Tech. Rep. 16854,

1995. *** *The state abbreviation is omitted if the name of the university includes the state name, i.e., "Univ. California, Berkeley."****

[4] C. Bece, These de doctoral d'etat, Univ. Grenoble, Grenoble, France, 1968.

Unpublished

For unpublished reference, there are two standard citation's styles which are:

Format of Reference:

[1] J. K. Author, private communication, Abbrev. Month, year.

[2] J. K. Author, "Title of paper," unpublished.

Example for Reference:

[1] A. Harrison, private communication, May 1995.

[2] B. Smith, "An approach to graphs of linear forms," unpublished.

[3] A. Brahms, "Representation error for real numbers in binary computer arithmetic," IEEE Computer Group Repository, Paper R-67-85.

Periodicals

NOTE: When referencing IEEE Transactions, the issue number should be deleted and month carried.

Format of Reference:

[1] J. K. Author, "Name of paper," *Abbrev. Title of Periodical*, vol. x, no. x, pp. xxx-xxx, Abbrev. Month, year.

Example for Reference:

[1] R. E. Kalman, "New results in linear filtering and prediction theory," *J. Basic Eng.*, ser. D, vol. 83, pp. 95-108, Mar. 1961.

[2] Ye. V. Lavrova, "Geographic distribution of ionospheric disturbances in the F2 layer," *Tr. IZMIRAN*, vol. 19, no. 29, pp. 31-43, 1961 (Transl.: E. R. Hope, Directorate of Scientific Information Services, Defence Research Board of Canada, Rep. T384R, Apr. 1963).

[3] E. P. Wigner, "On a modification of the Rayleigh-Schrodinger perturbation theory," (in German), *Math. Naturwiss. Anz. Ungar. Akad. Wiss.*, vol. 53, p. 475, 1935.

[4] E. H. Miller, "A note on reflector arrays," *IEEE Trans. Antennas Propag.*..., to be published**

[5] C. K. Kim, "Effect of gamma rays on plasma," submitted for publication. **

[6] W. Rafferty, "Ground antennas in NASA's deep space telecommunications," *Proc. IEEE* vol. 82, pp. 636-640, May 1994.

** Always use this style when the paper has not yet been accepted or scheduled for publication. Do not use "to appear in."

Abbreviations for IEEE Periodicals

Proceedings of the IEEE abbreviates to: Proc. IEEE

Proceedings of the IRE abbreviates to: Proc. IRE (until 1962)

IEEE Journals IEEE	IEEE J. Comput. Aid. Des. IEEE J. Ocean. Eng. IEEE J. Quantum Electron. IEEE J. Sel. Areas Commun. IEEE J. Sel. Topics Signal Process. IEEE J. Sel. Topics. Quantum Electron.	IEEE J. Solid-State Circuits IEEE Sensors J. IEEE Syst. J. IEEE Transl. J. Magn. Jpn. J. Lightw. Technol. J. Microelectromech. Syst.
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IEEE Letters	IEEE Antennas Wireless Propag. Lett. IEEE Commun. Lett. IEEE Electron Device Lett.	IEEE Photonics Technol. Lett. IEEE Power Electron. Lett. (<i>until 2005</i>) IEEE Signal Process. Lett. (<i>05</i>)
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IEEE Magazines	IEEE Aerosp. Electron. Syst. Mag. IEEE Annals Hist. Comput. IEEE Antennas Propagat. Mag. IEEE ASSP Mag. (<i>1984–1990</i>) IEEE Circuits Devices Mag. (<i>1985–present</i>) IEEE Circuits Syst. Mag. (<i>1979–1984</i>) IEEE Commun. Mag. (<i>1979–present</i>) IEEE Commun. Soc. Mag. (<i>until 1978</i>) IEEE Comput. Appl. Power IE IEEE Comput. Intell. Mag. EE Comput. Graph. Appl. IEEE Comput. Sci. Eng. Mag. IEEE Computer IEEE Concurrency IEEE Control. Syst. Mag. IEEE Des. Test Comput. IEEE Electr. Insul. Mag. IEEE Eng. Manag. Rev. IEEE Eng. Med. Biol. Mag. IEEE Expert (<i>until 1997</i>) Today's Eng.	IEEE Ind. Appl. Mag. IEEE Instrum. Meas. Mag. IEEE Intell. Syst. IEEE Internet Comput. IEEE IT Prof. IEEE Micro IEEE Microwave IEEE Multimedia IEEE Nanotechnol. Mag. IEEE Network IEEE Potentials IE EE Pers. Commun. IEEE Potentials IEEE Power Eng. Rev. IEEE Robot. Automat. Mag. IEEE Signal Processing Mag. (<i>1991–present</i>) IEEE Softw. IEEE Spectr. IEEE Technol. Soc. Mag. IEEE Veh. Technol. Mag.
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IEEE Transactions abbreviations

IEEE Adv. Packag. IEEE Trans. Ind. Electron.
IEEE/ACM Trans. Netw. IEEE Trans. Ind. Informat.
IEEE Human–Factors Electron. (*until 1968*)
IEEE Trans. Inf. Forens. Security
IEEE Man–Mach. Syst. (*until 1970*) IEEE Trans. Inf. Technol. Biomed.
IEEE Trans. Acoust., Speech, Signal Process. (*1975–1990*) IEEE Trans. Inf. Theory
IEEE Trans. Aeronaut. Navig. Electron. IEEE Trans. Instrum.

IEEE Trans. Aerosp. IEEE Trans. Instrum. Meas.
IEEE Trans. Aerosp. Electron. Syst. IEEE Trans. Intell. Transp. Syst.
IEEE Trans. Aerosp. Navig. Electron. IEEE Trans. Knowl. Data Eng.
IEEE Trans. Airborne Electron. IEEE Trans. Magn.
IEEE Trans. Antennas Propag. IEEE Trans. Manuf. Technol. (*1972–1977*)

IEEE Trans. Appl. Supercond. IEEE Trans. Mechatron.
 IEEE Trans. Audio Electroacoust. (*until 1974*)
 IEEE Trans. Med. Imag.
 IEEE Trans. Autom. Control IEEE Trans. Microw. Guid. Wave Lett. (*1987–1999*)
 IEEE Trans. Biomed. Circuits Syst. IEEE Trans. Microw. Theory Tech.
 IEEE Trans. Biomed. Eng. IEEE Trans. Microw. Wireless Compon. Lett. (*until 2004*)
 IEEE Trans. Broadcast. IEEE Trans. Mil. Electron.
 IEEE Trans. Broadcast. Technol. IEEE Trans. Multimedia
 IEEE Trans. Circuit Theory (*until 1973*) IEEE Trans. Nanotechnol.
 IEEE Trans. Circuits Syst. (*1974–1992*) IEEE Trans. Neural Netw.
 IEEE Trans. Circuits Syst. I, Fundam. Theory Appl. (*until 2003*) IEEE Trans. Neural Syst. Rehabil. Eng.
 IEEE Trans. Circuits Syst. I, Reg. Papers IEEE Trans. Nucl. Sci.
 IEEE Trans. Circuits Syst. II, Analog Digit. Signal Process. (*until 2003*) IEEE Trans. Parallel Distrib. Syst.
 IEEE Trans. Circuits Syst. II, Exp. Briefs
 IEEE Trans. Parts, Hybrids, Packag. Technol. (*June 1971–1977*)
 IEEE Trans. Circuits Syst. Video Technol.
 IEEE Trans. Parts, Mater. Packag.
 IEEE Trans. Commun. IEEE Trans. Pattern Anal. Mach. Intell.
 IEEE Trans. Commun. Technol. (*until 1971*)
 IEEE Trans. Plasma Sci.
 IEEE Trans. Compon. Hybrids, Manuf. Technol. (*1978–1993*) IEEE Trans. Power App. Syst. (*until 1985*)
 IEEE Trans. Compon. Packag. Manuf. Technol. A (*1994–1998*) IEEE Trans. Power Del.
 IEEE Trans. Compon. Packag. Manuf. Technol. B (*1994–1998*) IEEE Trans. Power Electron.

IEEE Trans. Compon. Packag. Manuf. Technol. C (*1996–1998*) IEEE Trans. Power Syst.
 IEEE Trans. Compon. Packag. Technol. IEEE Trans. Prof. Commun.
 IEEE Trans. Comput. IEEE Trans. Rehabil. Eng. (*until 2000*)
 IEEE Trans. Comput.-Aided Des. Integr. Circuits Syst. IEEE Trans. Reliab.
 IEEE Trans. Consum. Electron. IEEE Trans. Robot. Autom.
 IEEE Trans. Control Syst. Technol. IEEE Trans. Semicond. Manuf.

 IEEE Trans. Dev. Mat. Rel. IEEE Trans. Signal Process.
 IEEE Trans. Dielectr. Electr. Insul. IEEE Trans. Softw. Eng.
 IEEE Trans. Edu. IEEE Trans. Sonics Ultrason. (*until 1985*)
 IEEE Trans. Electromagn. Compat. IEEE Trans. Speech Audio Process.
 IEEE Trans. Electron Devices IEEE Trans. Syst. Man Cybern. (*1971–1995*)
 IEEE Trans. Electron. Packag. Manuf. IEEE Trans. Syst. Man Cybern. A., Syst. Humans
 IEEE Trans. Energy Convers. IEEE Trans. Syst. Man Cybern. B, Cybern.
 IEEE Trans. Eng. Manag. IEEE Trans. Syst. Man Cybern. C, Appl. Rev.
 IEEE Trans. Evol. Comput. IEEE Trans. Ultrason. Eng.
 IEEE Trans. Fuzzy Syst. IEEE Trans. Ultrason. Ferroelectr. Freq. Control
 IEEE Trans. Geosci. Electron. (*1962–1979*)
 IEEE Trans. Veh. Technol.
 IEEE Trans. Geosci. Remote Sens. IEEE Trans. Very Large Scale Integr. (VLSI) Syst.
 IEEE Trans. Image Process. IEEE Trans. Vis. Comput. Graphics
 IEEE Trans. Ind. Appl. IEEE Trans. Wireless Commun.

References

NOTE: When referencing, use *et al.* when three or more names are given.

References in Text

When references are cited, they appear on the line, in square brackets, *inside the punctuation*. Take a look at the example below;

As shown by Brown [4], [5]; as mentioned earlier [2], [4]–[7], [9]; Smith [4] and Brown and Jones [5]; Wood et al. [7]

NOTE: Use *et al.* when three or more names are given.

Or as nouns:

As demonstrated in [3]; according to [4] and [6]–[9].

References within a Reference

Check the reference list for *ibid.* or *op. cit.* These refer to a previous reference and reference section. In text, repeat the earlier reference number and renumber the reference *ibid.* gives a new page number, or other information, use the following forms:

[3, Th. 1]; [3, Lemma 2]; [3, pp. 5-10]; [3, eq. (2)]; [3, Fig. 1]; [3, Appendix I]; [3, Sec. 4.5]; [3, Ch. 2, pp. 5-10]; [3, Algorithm 5].

NOTE: Editing of references may entail careful renumbering of references, as well as the citations in text.

Style

In all references, the given name of the author or editor is abbreviated to the initial only and precedes the last name. Use commas around Jr., Sr., and III in names. If there are many names, use *et al.* Do not *combine* one reference with each number. If there is a URL included with the print reference, it can be included at the end of reference.

When the words below appear in the reference, abbreviate to:

Acoustics	Acoust.	Mathematic(s)	Math.
Administration	Admin.	Philosophical	Philosph.
Administrative	Administ.	Proceedings	Proc.
American	Amer.	Processing	Process.
Analysis	Annu.	Production	Prod.
Annals	Anal.	Productivity	Productiv.
Annual	Ann.	Quarterly	Quart.
Apparatus	App.	Record	Rec.
Applications	Applicat.	Reliability	Rel.
Applied	Appl.	Report	Rep.
Association	Assoc.	Royal	Roy.
Automatic	Automat.	Science	Sci.
Broadcasting	Broadcast.	Selected	Select.
Business	Bus.	Society	Soc.
Communications	Commun.	Sociological	Sociol.
Computer(s)	Comput.	Statistics	Stat.
Congress	Congr.	Studies	Stud.
Convention	Conv.	Supplement	Suppl.
Correspondence	Corresp.	Symposium	Symp.
Cybernetics	Cybern.	Systems	Syst.
Department	Dept.	Technical	Tech.
Development	Develop.	Telecommunication	Telecommun.
Digest	Dig.	Transactions	Trans.
Electrical	Elect.	Vehicular	Veh.
Electronic	Electron.	Working	Work.
Engineering	Eng.	Economic(s)	Econ.
Ergonomics	Ergonom.	Education	Educ.
Evolutionary	Evol.	Mathematical	Math.
Foundation	Found.	Mechanical	Mech.
Geoscience	Geosci.	National	Nat.
Graphics	Graph.	Newsletter	Newslett.
Industrial	Ind.	Nuclear	Nucl.
Industry	Ind.	Occupation	Occupat.
Information	Inform.		
Institute	Inst.		
Intelligence	Intell.		
International	Int.		
Journal	J.		
Letter(s)	Lett.		
Machine	Mach.		
Magazine	Mag.		
Management	Manage.		
Managing	Manag.		