

The `ieee` bibliography style for `biblatex`*

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This package provides a style for `biblatex` which follows the guidelines of the IEEE. The citation style is numeric and unsorted. The bibliography style follows the pattern of the official `IEEEtran` package (<https://ieeauthorcenter.ieee.org/wp-content/uploads/IEEE-Editorial-Style-Manual.pdf>). The style should be loaded in the usual way

```
\usepackage[style=ieee]{biblatex}
```

The References section of this document demonstrates the format generated by the package using the `biblatex-ieee.bib` database of example citations.

The style introduces new bibliography strings:

`patentjp` the text “Japanese Patent”;

`presentedat` the text “presented at the” when printing conference papers using the name of the conference rather than a reference to a book of abstracts.

These may be localized in the usual way.

The style adds the `dashed` option to those recognised: as-standard, this is activated. The option works in the same way as that from the core `biblatex` style `author-year`.

The appearance of URLs in the bibliography is set by the mechanism of the url package. Thus to print URLs in the current roman font, place the instruction

```
\renewcommand*{\UrlFont}{\rmfamily}
```

immediately before

```
\printbibliography
```

Also include in the bundle is a style using alphabetic labels, but otherwise following the guidelines of the IEEE. This style should be loaded using

```
\usepackage[style=ieee-alphabetic]{biblatex}
```

It is demonstrated in the accompany PDF file `biblatex-ieee-alphabetic`.

Suggestions for improvement and bug reports can be logged in the package issue database, found at <https://github.com/josephwright/biblatex-ieee/issues/>, or can be sent by e-mail to joseph.wright@morningstar2.co.uk.

*This file describes v1.3e, last revised 2021/03/25.

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References

- [1] J. B. Anderson and K. Tepe, “Properties of the tailbiting BCJR decoder,” in *Codes, Systems and Graphical Models*, ser. IMA Volumes in Mathematics and Its Applications. New York: Springer-Verlag, 2000.
- [2] B. K. Bul, *Theory Principles and Design of Magnetic Circuits*. Moscow: Energia Press, 1964, p. 464, (in Russian).
- [3] J. C. Candy and G. C. Temes, Eds., *Oversampling Delta-Sigma Data Converters Theory, Design and Simulation*. New York: IEEE Press., 1992.
- [4] J. Breckling, Ed., *The Analysis of Directional Time Series: Applications to Wind Speed and Direction*, ser. Lecture Notes in Statistics. Berlin, Germany: Springer, 1989, vol. 61.
- [5] A. Castaldini, A. Cavallini, B. Fraboni, P. Fernandez, and J. Piqueras, “Midgap traps related to compensation processes in CdTe alloys,” *Phys. Rev. B.*, vol. 56, no. 23, pp. 14 897–14 900, 1997.
- [6] M. Coates, A. Hero, R. Nowak, and B. Yu, “Internet tomography,” *IEEE J. Selected Areas Commun.*, May 2002, to be published.
- [7] B. D. Cullity, *Introduction to Magnetic Materials*. Reading, MA: Addison–Wesley, 1972.
- [8] R. M. A. Dawson, Z. Shen, D. A. Furst, *et al.*, “Design of an improved pixel for a polysilicon active-matrix organic LED display,” in *SID Tech. Dig.* 1998, vol. 29, pp. 11–14.
- [9] W. Dai, H. V. Pham, and O. Milenkovic, “Distortion-rate functions for quantized compressive sensing,” in *IEEE Information Theory Workshop on Networking and Information Theory*. 2009.
- [10] ———, “Comparative study of quantized compressive sensing schemes,” in *IEEE Information Theory Workshop on Networking and Information Theory*. 2009.
- [11] S. G. Finn, M. Médard, and R. A. Barry, “A novel approach to automatic protection switching using trees,” presented at the IEEE International Conference on Communications, Montreal, Que., Canada, 1997.
- [12] *FLEXChip signal processor (MC68175/D)*, Motorola, 1996.
- [13] P. Hedelin, P. Knagenhjelm, and M. Skoglund, “Theory for transmission of vector quantization data,” in *Speech Coding and Synthesis*, W. B. Kleijn and K. K. Paliwal, Eds. Amsterdam, The Netherlands: Elsevier Science, 1995, ch. 10, pp. 347–396.
- [14] U. Hideki, “Quadrature modulation circuit,” Japanese Patent 152932/92, 1992-05-20.
- [15] *IEEE Personal Commun. Mag.*, *Special Issue on Wireless ATM* vol. 3 1996-08.
- [16] *Wireless LAN medium access control (MAC) and physical layer (PHY) specification*, IEEE Std. 802.11, 1997.
- [17] V. Jacobson. “Modified TCP congestion avoidance algorithm.” (1990-04), [Online]. Available: <ftp://ftp.isi.edu/end2end/end2end-interest-1990.mail>.

- [18] R. Jain, K. K. Ramakrishnan, and D. M. Chiu, "Congestion avoidance in computer networks with a connectionless network layer," Digital Equipment Corporation, MA, Tech. Rep. DEC-TR-506, 1987-08.
- [19] N. Kahale and R. Urbanke, "On the minimum distance of parallel and serially concatenated codes," *IEEE Trans. Inf. Theory*, submitted for publication.
- [20] S. Kandala, "Changes to Annex D," IEEE, Tech. Rep. 02/680r0, 2002-10.
- [21] A. Karnik, "Performance of TCP congestion control with rate feedback: TCP/ABR and rate adaptive TCP/IP," M. Eng. thesis, Indian Institute of Science, Bangalore, India, 1999-01.
- [22] F. Kowalik and M. Isard, "Estimateur d'un défaut de fonctionnement d'un modulateur en quadrature et étage de modulation l'utilisant," French, French Patent Request 9 500 261, 1995-01-11.
- [23] Q. Li, "Delay characterization and performance control of wide-area networks," Ph.D. dissertation, Univ. of Delaware, Newark, NJ, 2000-05. [Online]. Available: <http://www.ece.udel.edu/~qli>.
- [24] N. C. Loh, "High-resolution micromachined interferometric accelerometer," M.S. thesis, Massachusetts Institute of Technology, Cambridge, MA, 1992.
- [25] D. H. Lorenz and A. Orda. "Optimal partition of QoS requirements on unicast paths and multicast trees." (1998-07), [Online]. Available: <ftp://ftp.technion.ac.il/pub/supported/ee/Network/lor.mopq98.ps>.
- [26] S. M. Metev and V. P. Veiko, *Laser Assisted Microtechnology*, 2nd ed., R. M. Osgood Jr., Ed. Berlin, Germany: Springer-Verlag, 1998.
- [27] D. Middleton and A. D. Spaulding, "A tutorial review of elements of weak signal detection in non-Gaussian EMI environments," National Telecommunications and Information Administration (NTIA), U.S. Dept. of Commerce, NTIA Report 86-194, 1986-05.
- [28] B. Mikkelsen, G. Raybon, R.-J. Essiambre, *et al.*, "160 Gbit/s single-channel transmission over 300 km nonzero-dispersion fiber with semiconductor based transmitter and demultiplexer," in *Proc. ECOC'99*, Nice, France, 1999, pp. 28–29.
- [29] Y. Okada, K. Dejima, and T. Ohishi, "Analysis and comparison of PM synchronous motor and induction motor type magnetic bearings," *IEEE Trans. Ind. Appl.*, vol. 31, pp. 1047–1053, 1995-09/1995-10.
- [30] T. J. Ott and N. Aggarwal, "TCP over ATM: ABR or UBR," Unpublished.
- [31] J. Padhye, V. Firoiu, and D. Towsley, "A stochastic model of TCP Reno congestion avoidance and control," Univ. of Massachusetts, Amherst, MA, CMPSCI Tech. Rep. 99-02, 1999.
- [32] H. E. Rose, *A Course in Number Theory*. New York: Oxford Univ. Press, 1988, ch. 3.
- [33] R. E. Sorace, V. S. Reinhardt, and S. A. Vaughn, "High-speed digital-to-RF converter," U.S. Patent 5 668 842, 1997-09-16.
- [34] W. V. Sorin, "Optical reflectometry for component characterization," in *Fiber Optic Test and Measurement*, D. Derickson, Ed. Englewood Cliffs, NJ: Prentice-Hall, 1998.

- [35] V. Valloppillil and K. W. Ross. “Cache array routing protocol v1.1.” (1998), [Online]. Available: <http://ds1.internic.net/internet-drafts/draft-vinod-carp-v1-03.txt>.
- [36] M. Wegmuller, J. P. von der Weid, P. Oberson, and N. Gisin, “High resolution fiber distributed measurements with coherent OFDR,” in *Proc. ECOC’00*, Munich, Germany, 2000, p. 109.
- [37] M. Yajnik, S. B. Moon, J. Kurose, and D. Towsley, “Measurement and modeling of the temporal dependence in packet loss,” in *Proc. IEEE INFOCOM’99*, vol. 1, New York, 1999-03, pp. 345–352.
- [38] M. S. Yee and L. Hanzo, “Radial basis function decision feedback equaliser assisted burst-by-burst adaptive modulation,” in *Proc. IEEE Globecom ’99*, Rio de Janeiro, Brazil, 1999-12-05/1999-12-09, pp. 2183–2187.

Change History

<p>v1.0 General: First stable release 4</p> <p>v1.0a General: Print “presented at” for inproceedings entries only if an eventtitle is available 4</p> <p>v1.0b General: Add instructions for printing URL in roman font 4 Use dash for repeated author names 4</p> <p>v1.0c General: Set <i>et al.</i> in italics 4 Turn off citation sorting 4 Use two em-dashes for repeated names 4</p> <p>v1.0d General: Place series before editor for incollection entries 4</p> <p>v1.1 General: New alphabetic style ieee-alphabetic 4 Update citation-related options set by the style 4</p> <p>v1.1a General: Bracket citation numbers singly, not as a group 4</p> <p>v1.1b General: Fix spacing between bibliography label and entry 4</p> <p>v1.1c General: Improve handling of names in \textcite 4</p>	<p>v1.1d General: Improve handling of names in \textcite again 4</p> <p>v1.1e General: Address brackets around citations again, hopefully correctly this time 4 Use US-style punctuation suppression 4</p> <p>v1.1f General: Fix brackets in \textcite 4</p> <p>v1.1g General: Include data for related entries 4</p> <p>v1.1h General: Print post-notes within brackets surrounding citation number 4</p> <p>v1.1i General: Remove extraneous bracket when \cites is used 4</p> <p>v1.1j General: Correctly format multi-part page ranges 4 Update \textcite code for biblatex v2.7 4</p> <p>v1.1k General: Capitalise after colon in titles 4</p> <p>v1.1l General: Respect braces for capitalisation in titles 4</p>
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v1.1m	General: Much simplified citation style approach 4	More work on formatting of titles 4
	Track biblatex changes 4	Move some formatting directives 4
v1.1n	General: Fix printing of titles when braced in database 4	v1.2b General: Fix accidental printing of string no. 4
v1.1o	General: Fix capitalisation of journal titles 4	v1.2c General: Fix formatting for volume in some entry types 4
v1.1p	General: Revert changes in internal code for citation handling 4	v1.2d General: Subtle adjustment for volume string 4
v1.1q	General: Fix stray space after “ <i>et al.</i> ” 4	v1.3 General: Hungarian localisation . . 4
v1.2	General: New dashed option 4	v1.3b General: Add quotes to website titles 4
	Refine handling of case changing in titles 4	v1.3d General: Adjust online type 4
	Use title case for book titles 4	v1.3e General: Adjust truncation of names list 4
v1.2a	General: Minor internal updates . . 4	