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Assessing the source: an "Argument from Expert Opinion"

"Critical Questions" for the Argument from Expert Opinion:

- Expertise. How credible is the source?
- Field. Is the source expert in the field?
- Opinion. What did the source actually say? When?
- Trustworthiness. Is the use of the source reliable?
- Consistency. Is the source consistent with others? -

(PEER REVIEW!!!)

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COMP COMP UNIVERSITY OF UNIVERSITY OF 107 107 Scholarly vs Popular Main academic sources **Conference papers** • A scholarly paper is a way for experts in Gatherings for researchers to present and discuss the field to communicate their results/ their work, typically related to a particular academic findings, typically to other experts in the discipline and often held at regular intervals field • Output published in "conference proceedings" in the form of conference papers written by the researchers • A popular paper (on a research finding) is about their work (and often peer-reviewed) a communication to the general public • Types of events: Conference, Workshop, Symposium about some research Check "acceptance ratio"



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Main academic sources

Journal articles

- Academic journals are peer-reviewed periodicals in which research relating to a particular academic discipline is published
- Each issue of a journal contains a collection of articles, each article written by a group of researchers
- "Special issues" on a topic

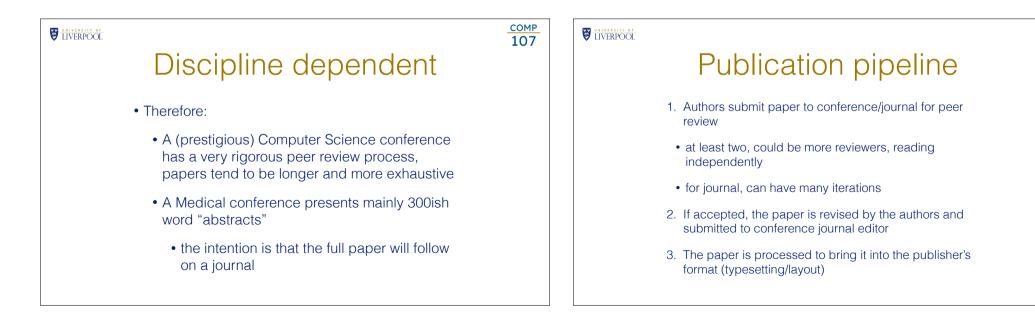
Discipline dependent

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- Computer Science is a very dynamic subject, and communication of results, and publication, relies heavily on conferences.
- Other disciplines (e.g. Medical research) publish mainly in journals.



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Publication pipeline

- 4. The paper is then included in the publisher's database, made available on-line via the publisher's website, and possibly published in printed form (not necessarily in that order)
- 5. Literature databases collect the bibliographic information from several publishers, and add additional information (references with links, citation index) + link back to publisher for fulltext of papers

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Databases and search engines

The University of Liverpool subscribes to **publisher** DBs (Access to full-text requires authentication by MWS login and password)

ACM Digital	Full-text of all ACM journals and conference proceedings	
Library	http://portal.acm.org.ezproxy.liv.ac.uk/dl.cfm	
IEEE Xplore	Full-text of IEEE journals, conference proceedings, and	
	books	
	http://ieeexplore.ieee.org.ezproxy.liv.ac.uk/	
ScienceDirect	Full-text of Elsevier journals	
	http://www.sciencedirect.com.ezproxy.liv.ac.uk	
Springer Link	Full-text of Springer journals, conference proceedings, and	
	books	
	http://www.springerlink.com.ezproxy.liv.ac.uk/	
Wiley Online	Full-text of Wiley journals and books	
Library	http://onlinelibrary.wiley.com.ezproxy.liv.ac.uk/	

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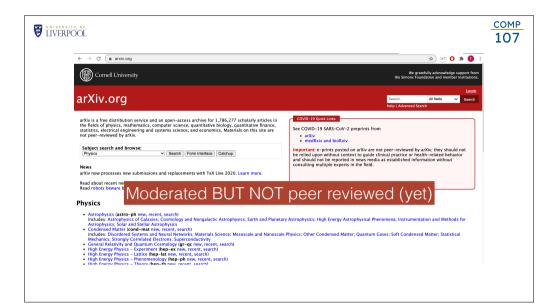
Databases and search engines

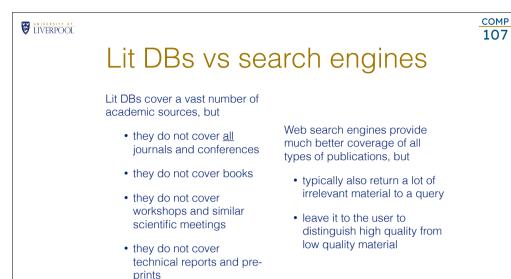
Freely available (scholarly) sources:

CiteseerX	Digital library of 750k freely available papers in computer and information science http://citeseer.ist.psu.edu	
Google	General internet search engine	
Ŭ	http://www.google.co.uk	Get into the habit of "google-scholar" it
Google Scholar	Searches scholarly literature on the web	9 <u>9</u>
	http://scholar.google.com	
Scirus	Searches journals (ScienceDirect) and	
	web resources	
	http://www.scirus.com/	
Microsoft Academic	Academic search engine - search academic jour-	
Search	nals and content for article titles, author names,	
	article abstracts, and conference proceedings	
	http://academic.research.microsoft.com/	

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Currency

- Currency refers the timeliness of the information
 - When was the information published or posted?
 - Has the information been revised or updated?
 - Is the information current or out-of date for your topic?
 - Are the links functional?

Relevance

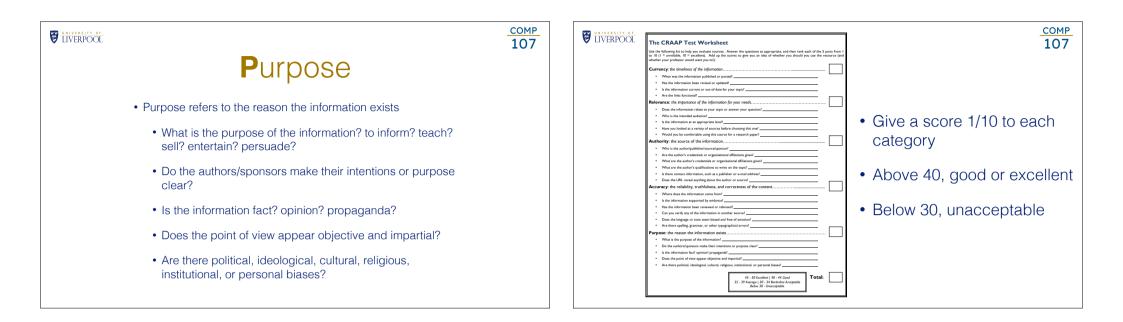
Relevance refers to the importance for your needs:

• Does the information relate to your topic/answer your question?

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- Who is the intended audience?
- Is the information at an appropriate level (i.e. not too elementary or advanced for your needs)?
- Have you looked at a variety of sources before determining this is one you will use?
- Would you be comfortable using this source for a research paper?







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Purpose of References

- Show how work extends the current state-of-theart knowledge in the area
- Prove originality of work
- Give credit to other people's work (avoid accusations of plagiarism)
- Support and validate arguments made
- Demonstrate familiarity with work done in the area

The culture of citing

- Fiction writing: There might be sources for your work, but these are never acknowledged, unless they serve a literary purpose.
- Journalism: There must be sources, but these are rarely acknowledged (sometimes for a good reason, often for no reason)
 - Exceptions:
 - Quotation of something said in public
 - Reports (government, research, 'think tank')
 - But acknowledgements are not always in a format considered acceptable in academia
 - E.g.: https://www.theguardian.com/science





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Discipline dependent

Mathematics:

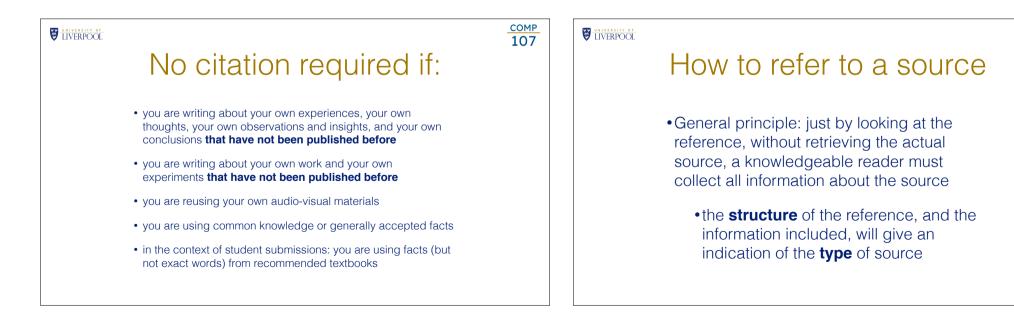
Important concepts and results are given specific names, (often the name of the first person to introduce the concept/result, often these concepts/results are considered common knowledge)

- A lot of concepts have a fixed definition, results have a specific wording, so definitions and results are stated or used without indication of a source;
- verbatim copying and close paraphrasing of definitions and results is standard (but not that of proofs!)

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Rules of Thumb

- If you use words or ideas from any document/medium, even produced by yourself, then the source must be cited
- If you gain words or ideas through conversation, written or spoken, then the source must be cited
- If you use the exact words/phrase from any document, medium or conversation, it must not only be cited but also indicated as **quotation** ("")
- If you reproduce audio-visual materials (with permission), then the source must be cited



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Type of sources

- · Author's own past work
- Private communication with others
- Newspaper articles, Radio or TV programmes
- Web pages
- Books or book chapters

- Research publications (conference papers, articles in journals)
- Theses (Masters, MPhil, PhD)
- Formal documents: Publications, Legislation/Court cases, Patents, Manuals...

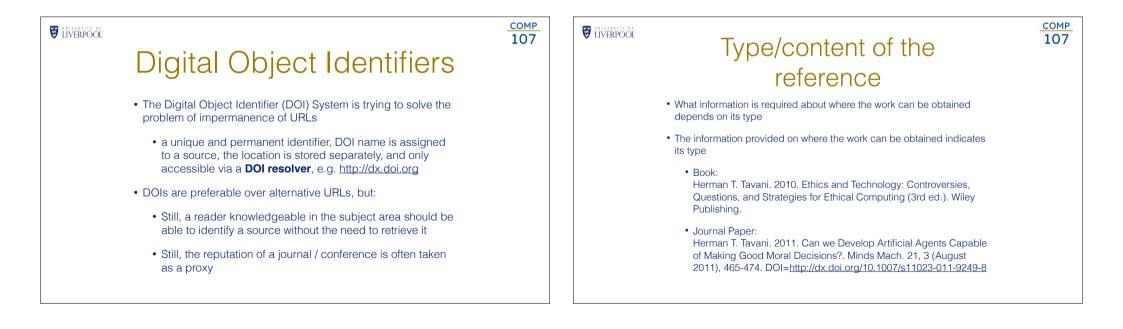
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URLs are not enough

- Because the URL might not be valid in the future
- Because a reader knowledgeable in the subject area should be able to identify a source without the need to retrieve it
- Because the reputation of a journal / conference is often taken as a proxy indicator of quality
- URLs should only be given in addition to the required bibliographic information, never **instead** of it



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How to refer to a...

Book

- Author(s) or editor(s)
- Title and subtitle
- Edition, if not the first, for example 2nd ed.
- Series and individual volume number (if any)
- Publisher
- (Place of publication)
- Year of publication

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How to refer to a...

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Chapter/section of a book with separate authors

- Author(s) of the chapter/section
- Title and subtitle of the chapter/section
- Author/editor of collected work
- Title and subtitle of collected work
- Chapter/section referred to
- Page numbers of chapter/section referred to
- Publisher
- (Place of publication)
- Year of publication



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How to refer to a...

Journal article

- Author(s) of the article
- Title and subtitle of the article
- Title of the journal
- Volume and part number
- Page numbers of article
- Date, month or season of the year, if appropriate
- Year of publication

Note: Information on the publisher is typically not required

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How to refer to a...

Newspaper / Magazine article

- Author(s) of the article
- Title and subtitle of the article
- Name of the newspaper / magazine
- Volume and part number
- Page numbers of article
- Date, month or season of the year, if appropriate
- Year of publication
- Information on the publisher is typically not required
- If no author is indicated, leave this information out when referring to the article use the name of the newspaper as author



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How to refer to a...

Web pages

- Author(s) of the web page(s)
- Title and subtitle
- URL
- Date (possibly time) of last modification, if available
- Date (possibly time) of access

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How to refer to a...

Legislation

- Title of the act
- Year in which the act came into force
- URL where the act can be found
- Date on which you have accessed that URL

Court cases

- Case name, typically given in the form claimant v defendant
- Year in which the case concluded
- Court
- Case/judgement number or document details
- URL where the document can be found
- Date on which you have accessed that URL





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Bad:

Marco Dorigo, Gianni Di Caro, Michael Samples, Ant Algorithms, third international workshop, Ant 2002, Brussels, Belgium, September 2002, Proceedings.

Good:

Marco Dorigo, Gianni Di Caro, and Michael Samples, editors: Ant Algorithms: Third International Workshop, ANTS 2002, Brussels, Belgium, September 12-14, 2002, Proceedings. Lecture Notes in Computer Science 2463. Springer, 2002.

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Bad: http://www.cut-the-knot.org/blue/Stern.shtml

Good: Alexander Bogomolny: Stern-Brocot Tree. http://www.cut-the-knot.org/blue/Stern.shtml. Last modification 17 June 2000. Accessed 26 October 2013.





Reference vs Citation

- A reference is a description that identifies an information source
- A citation is the use of a reference in the text.
 - Not a good practice to simply list all your references at the end of your document
 - Need to clearly mark what is your own work and what is the work of others
 - Need to help readers get more info on what they are interested in

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Where to place a citation

- Before a punctuation mark: The human brain contains approximately 50 billion neurons (Smith, 1994).
- At a logical place in a sentence: According to some researchers (Smith, 1994) there are 50 billion neurons in the human brain.
- At a grammatically correct place in a sentence: According to Smith (1994), there are 50 billion neurons in the human brain.

COMP COMP UNIVERSITY OF UNIVERSITY OF 107 107 OR 👎 Where to place a citation · Before a list of items • Recent work has reported that the importance of computers in industry cannot be overestimated. Several useful services (such There are five categories of users (Anderson, 2008): as booking train tickets) relv on computers. However, the (1) students, (2) teachers, (3) professors, (4) technical importance of using computers in our everyday life has been staff. (5) administrative staff. guestioned. It has been argued that having too many computers in our everyday life causes security problems, since Following quotations people cannot protect their computers from hackers and "In the experiments it is shown that the human brain Internet viruses. The researchers are still debating these hot has 50 billion neurons. Many of the types of neurons topics. (Jones, 1993) have yet to be classified. We strongly encourage other • The placement suggests that the whole paragraph is taken from researchers to develop tools and techniques that will Jones 1993 (as a paraphrase), in particular the last sentence. assist the process of categorising the neurons." (Smith, 1994, p. 345) • Better: Recent work (Jones, 1993) has reported that...

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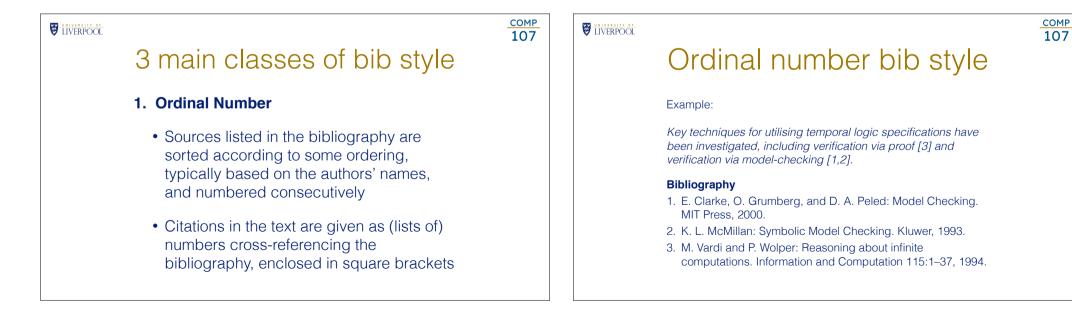
- For a long time, the best stock market predictions have been achieved by the Epsilon neural network architecture (Myers and Sang, 1997, Niven, 1999).
- Who developed the architecture? Who applied it to stock market predictions?
- Better: The Epsilon neural network architecture, proposed by Myers and Sang (1997), has for a long time been the most accurate method for stock market prediction (Niven, 1999).

Bibliography style

- A bibliography style determines
- · how citations are presented
 - what information is in a citation
 - what a citation looks like where the citation is placed

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- how references are presented
 - order of references within a bibliography
 - order of information within a reference fonts
 - punctuation





3 main classes of bib style

2. Author-Date

- Sources in the reference list are arranged alphabetically by the authors' surnames (phone book order);
- work by the same authors are arranged by year of publication, starting with the earliest;
- more than one work with the same authors and date, a letter is added to the year of publication to distinguish them
- The year of publication typically immediately follows the list of authors

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Author-Date bib style

• Example:

Bibliography

E. Clarke, O. Grumberg, and D. A. Peled (2000). Model Checking. MIT Press.

K. L. McMillan (1993). Symbolic Model Checking. Kluwer.

P. Wolper (1996a). Where is the Algorithmic Support? ACM Computing Surveys 28(4):58.

P. Wolper (1996b). The Meaning of "Formal". ACM Computing Surveys 28(4):127.

COMP UNIVERSITY OF UNIVERSITY OF 107 Author-Date bib style • A citation is given by the authors' names and the date enclosed in parentheses unless the authors' names are part of the sentence, for example: • While Wolper (1996a) states that he does not argue that compositionality in proof systems for concurrency is undesirable, he claims that achieving it without algorithmic support is mostly useless. • Recent work (Wolper, 1996a, 1996b) stresses the importance of algorithmic support for formal methods. · Wolper (1996a, 1996b) stresses the importance of algorithmic support for formal methods.

3 main classes of bib style

3. Abbreviation

- Mix of ordinal number style and author-date style
- Sources in the bibliography are presented like in ordinal number style, but instead of numbering them, each source is given a unique identifier based on authors' names and year of publication, with additional letters to disambiguate duplicate abbreviations

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Abbreviation bib style

• Example:

Bibliography

[CGP00] E. Clarke, O. Grumberg, and D. A. Peled. Model Checking. MIT Press, 2000.
[vdG94] R. A. van der Goot. Strategies for modal resolution. Master's thesis, Delft University of Technology, The Netherlands, 1994.
[Wol96a] P. Wolper. Where is the Algorithmic Support? ACM

Computing Survey 28(4):58, 1996. [Wol96b] P. Wolper. The Meaning of "Formal". ACM Computint Survey 28(4):127, 1996.

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Abbreviation bib style

- Citations are given by using the references, in brackets:
 - Key techniques for utilising temporal logic specifications have been investigated, including verification via proof [VW94] and verification via model-checking [CGP00,McM93].
 - Recent work [Wol96a, Wol96b] stresses the importance of algorithmic support for formal methods.
 - Wolper in [Wol96a,Wol96b] stresses the importance of algorithmic support for formal methods.

