

literature survey and reference management



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Overview

Literature Research



Reference
Management

Citation Style

3 Months for NTP / 5 Months for Thesis

Importance

*Knowledge through
literature research*

Proper Interconnection

Proper Structure



Improper Interconnection

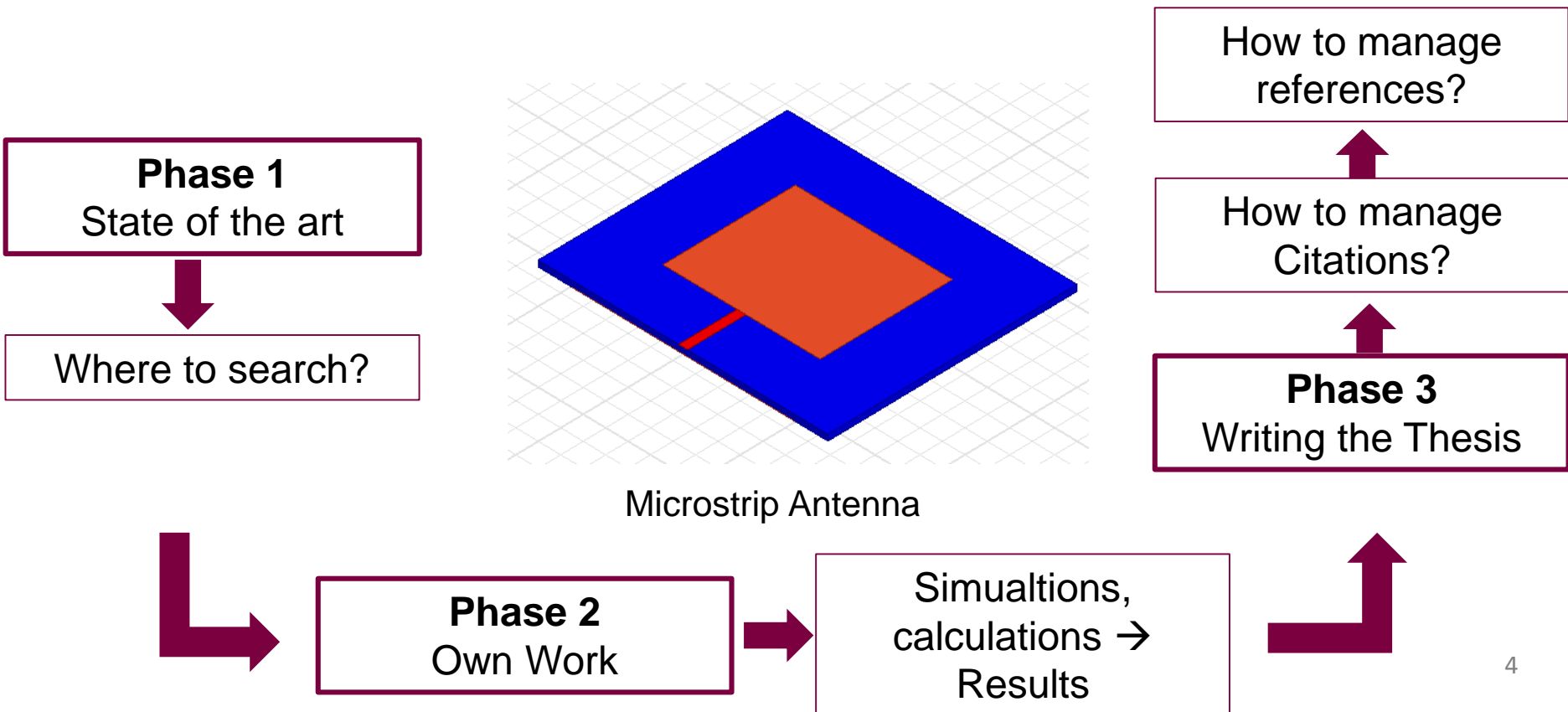


Improper Structure



Example: Design of microstrip antenna for Wi-Fi 5GHz application

How do you deal with such topic?





Do we start with Google?

High Level Overview

Google may be the beginning of other documents to address



Microstrip Antenna

Input



Output

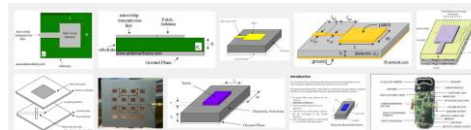
all

Images

Videos

Microstrip antenna - Wikipedia, the free encyclopedia
https://en.wikipedia.org/wiki/Microstrip_antenna ▾ Diese Seite übersetzen
 In telecommunication, there are several types of microstrip antennas the most common of which is the microstrip patch antenna or patch antenna. Contents. [hide].
 Patch antenna - Advantages - Rectangular patch - Specifications

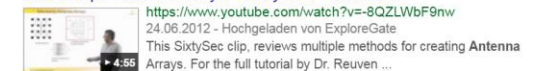
Microstrip Antennas: The Patch Antenna - Antenna Theory
www.antenna-theory.com/antennas/.../antenna.php ▾ Diese Seite übersetzen
 Here is the link page to the various patch antenna and microstrip antenna topics. The goal is to understand the radiation mechanism, polarization, patterns, ...



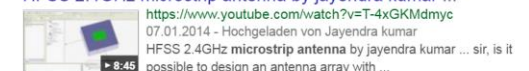
video tutorial microstrip antenna - YouTube



Microstrip Antenna Arrays - SixtySec - YouTube



HFSS 2.4GHz microstrip antenna by jayendra kumar ...



HFSS Microstrip feed antenna - YouTube





Scientific Sources

- Paper from scientific newspapers, journals, magazines
- Books
- Collected editions
- Dissertations, Habilitations
- Diploma thesis, Bachelor–/ Master thesis
- Press releases
- Official publications (laws, guidelines,...)



Different Data Bases for Literature Research

UBfind – the library's own search engine

(<http://www.ub.ovgu.de/en/Literatursuche/UBfind.html>)

IEEE Xplore – more relevant for Electrical engineering students

(<http://ieeexplore.ieee.org/Xplore/home.jsp>)

Science Direct (<http://www.sciencedirect.com/>)

Scopus (<http://www.scopus.com/>)

Online Catalog of the University Library of Magdeburg

(<https://opac.uni-magdeburg.de/DB=1/LNG=EN/>)

Electronic Journals Library

(<http://rzblx1.uni-regensburg.de/ezeit/ezb.phtml?bibid=UBMD&colors=7&lang=en>)

Datenbank-Infosystem (DBIS) (only german interface)

(http://rzblx10.uni-regensburg.de/dbinfo/fachliste.php?bib_id=ubmd&lett=l&colors=&ocolors=)

Google Scholar (<http://scholar.google.de>)

ISI Web of Knowledge (www.webofknowledge.com)



Snowball System

Time and again taking references from an article

Example from iee

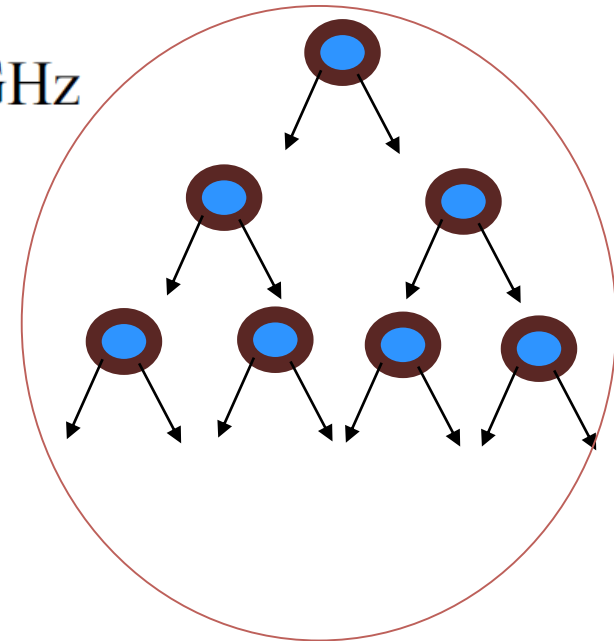
Optimization of Rectangular Patch Antenna at 5GHz using Bat Search Algorithm

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REFERENCES

[1]C. A. Balanis, *Antenna Theory: Analysis and Design*, 3rd ed.: John Wiley & Sons, 2005.

[2] L. Koyya, R. L. Valluri and G. Raju, "Optimization of Geometry of Microstrip Patch Antenna for Broadband Applications", *International Journal of Advance Research in Electrical, Electronics and Instrumentation Engineering*, vol. 2, Issue 7, pp.3119-3123, July 2013.

[3]Xin-She Yang, "A New Metaheuristic Bat-inspired Algorithm", pp. 1-10, 2010.

[4]Xin-She Yang, "Bat Algorithm: Literature Review and Application", pp.1-10, 2013.

[5]Ramna, Dr. A. S. Sappal, "Design of Probe Fed Microstrip Patch Antenna using Particle Swarm optimization", *International Journal of Advance Research in Computer Science and Software Engineering*, vol. 3, no.8, pp.185-187, August 2013.



Overview

Reference Management

The basic antenna parameters which are modified using bat algorithm are as follows [1]:

$$\text{Resonant frequency } f_r = \frac{c}{2L\sqrt{\epsilon_{\text{reff}}}} \quad - (1)$$

[1] C. A. Balanis, *Antenna Theory: Analysis and Design*, 3rd ed.: John Wiley & Sons, 2005.



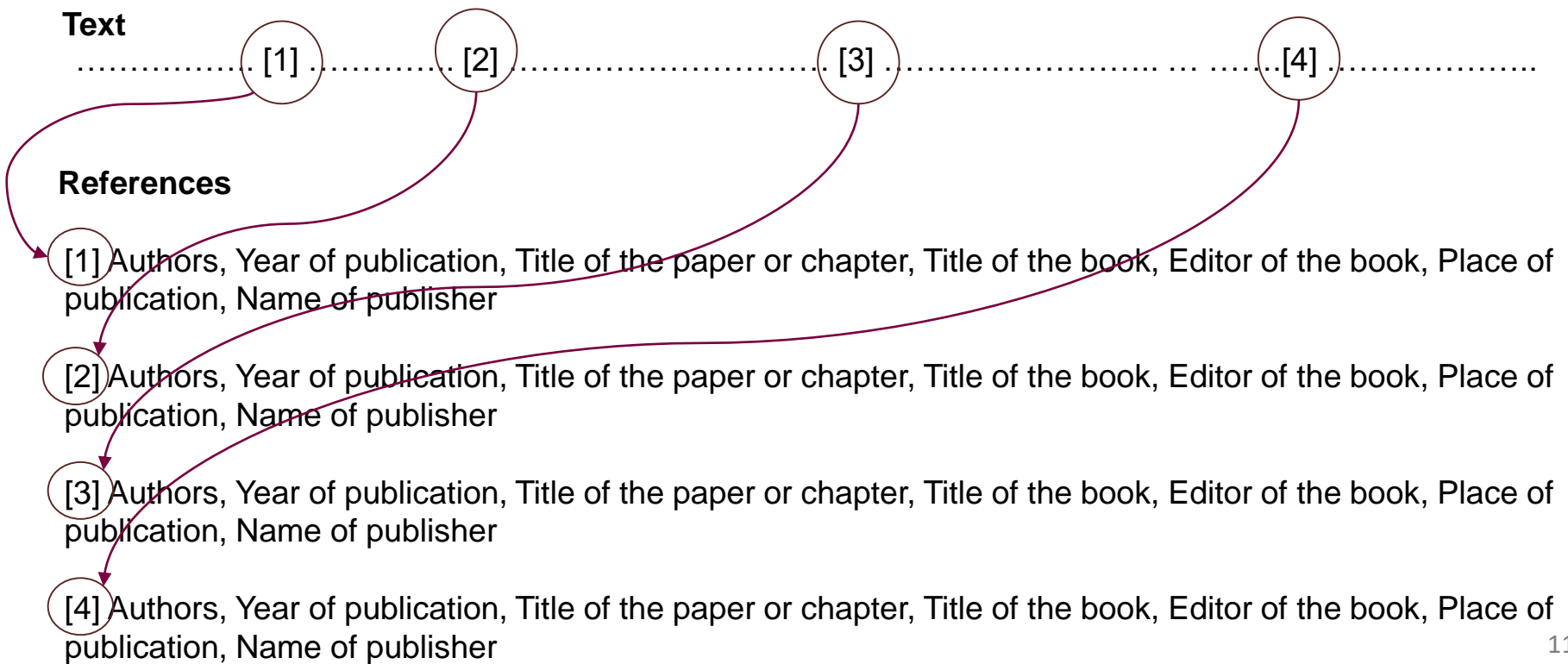
Literature
Research

Citation Style



What are References?

References are the lists of books, journals, publications etc. which the author has read to support his own work





Citing from social networking sites

Simply mentioning social networking without the names of the authors and the journal or conference is not a meaningful source of information

Example from ResearchGate

[27] ResearchGate, New York, USA. *UAS4SAFETY: The Potential of Unmanned Aerial Systems for Construction Safety Applications.* https://www.researchgate.net/publication/269048122_UAS4SAFETY_The_Potential_of_Unmanned_Aerial_Systems_for_Construction_Safety_Applications.



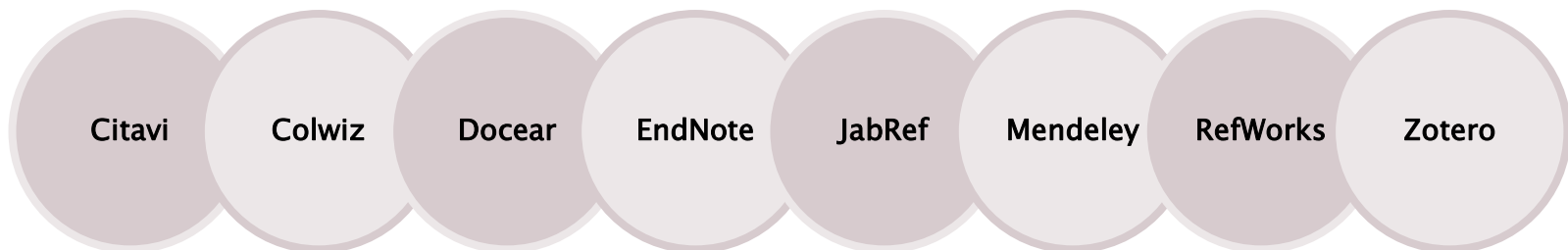
General Aspects

Professional reference management software

Helps to keep overview of literature concerning a certain aspect or scientific discipline

Assistance for creation of scientific publications

Management of own literature collection





Find suitable reference management software

- operating system
- text processing program
- features
- compatibility
- ease of use
- support
- costs

Tips:

Comparison of Reference Managementsoftware.

Universitätsbibliothek der Technischen Universität München, Juni 2014 → PDF at elearning.ovgu.de

<https://mediatum.ub.tum.de/doc/1231325/1231325.pdf>

Comprehensive comparison:

http://en.wikipedia.org/wiki/Comparison_of_reference_management_software



Citavi and JabRef

A video tutorial on brief introduction to Citavi and JabRef is available under:

Citavi: <https://www.youtube.com/watch?v=Z4fmmRra-Gk&feature=youtu.be>

JabRef: <https://www.youtube.com/watch?v=h39gPh9g00M>

These videos are also available in <https://elearning.ovgu.de>



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What is plagiarism?



Plagiarism in Germany



German minister Annette Schavan quits over 'plagiarism'

© 9 February 2013 | Europe

German Education Minister Annette Schavan has resigned after a university stripped her of her doctorate for plagiarism.



German politician loses doctorate for plagiarism

Bonn University annuls MEP Jorgo Chatzimarkakis's doctorate for insufficient acknowledgement of other authors



At OvGU, 'Plagiarism' can lead to the extent of even the student getting Exmatriculated



Websites for plagiarism check:

- Turnitin– Tool for finding percentage of plagiarism

<https://www.turnitin.com/>

- SCRiBBR Plagiarism Check

<https://www.scribbr.com/plagiarism-check/>



Ephorus – Tool for finding percentage of plagiarism

Example from Non Technical Project:

Why do people drink more tomato juice in the airplane?

turnitin® | ephorus

Titel des Dokumentes
Eingabedatum Wed 20 May 2015 08:19:22 PM CEST

14%

14% <http://www.flavourjournal.com/content/pdf/2044-7248-3-2.pdf>

14% <http://www.flavourjournal.com/content/3/1/2>

<http://flavourjournal.biomedcentral.com/articles/10.1186/2044-7248-3-2>

V. SUMMARY

In conclusion, perhaps all those travelers who order a tomato juice after the seatbelt sign has been turned off have figured out intuitively what scientists are only now slowly coming to recognize empirically, regarding the interaction between what

In conclusion, perhaps all those travellers who order a Bloody N after the seatbelt sign has been turned off have figured out intuitively what scientists are only now slowly coming to recognize empirically, regarding the interaction between what



How to avoid plagiarism

- Always write your own text, except direct citations
- Do not copy paste in your work
- Do not forget the references
- When you read informations at one sources, after you get the idea, put the source away and write with own words and phrases in your thesis
- Of course it is hard work to write your thesis in this way, but you will be safe from plagiarism



Citation – Why?

- uphold intellectual honesty
- avoid plagiarism
- confirm data and facts, the work is based on
- **pure statement of a fact without citing a source
not permissible!!!**
- a reference is not necessary if the asserted statement is an accepted matter of fact in the special field. For ex: ohm's law



1. Direct and Indirect Citations

Direct Citations

- *verbatim copy of external text parts into the own thesis*
- *used to analyze or interpret the statement of the cited source*
- *Placed in quotation marks “....”*
- *has to be cited to the letter (direct copy paste)*
- *reference to the source follows at the end of the cited text part*
- *text parts in a foreign language should be cited in the original language (amended by a translation that is put in parentheses)*

Indirect Citations

- *equivalent adoption of external text parts or the imitation with regards to the content*
- *used to support own explanations and positions*
- *Not placed in quotation marks*
- *Explained in your own words*
- *reference to the source follows the respective text part*

Direct quotations are very rarely used in technical reports !!



Citation Style

- references link to the bibliography
- for direct or indirect citation source in square brackets

Example: “This is a direct citation.” [2]

[2] Doe, John: Citation Style. Sample Publisher, 2014

- Preferably page number mentioned inside the square brackets

Example: “This is a direct citation.” [2, p. 50]

- If source ranges over two pages, a “f.” for “and following” is appended to the reference

Example: “This direct citation [. . .] goes over two pages.” [2, p. 50 f.]



Citation Style

- if source ranges over three or more pages, the exact range of pages should be specified

Example: This indirect citation refers to a longer passage [2, p. 50–55].

- if several, short sources (e. g. articles) are cited completely, the references can be directly grouped

Example: This relation is described in [1–3] in more detail.

Pictures and graphics



Figure 2.4.: Famous standard test image (showing Lena Söderberg) as an example of a raster (bitmap) graphic (converted to JPEG from the original TIFF format [7])

- Reference should be inserted into the caption



Useful links

Link	Description
http://www.emv.ovgu.de/emv/en/Science+_+Education/Guidance+and+Templates.html	<i>Guidance on the preparation of Degree theses PDF, LaTeX templates for thesis report and final presentation</i>
http://www.cd.ovgu.de/Projekte+_+Vorlagen/PPT+_+Pr%C3%A4sentationen-p-64.html	<i>Powerpoint template containing different styles for final presentation of the thesis (accessible only within OvGU network)</i>
https://www.youtube.com/watch?v=UkgU3TWzV_k	<i>Introduction to LaTeX</i>
https://www.youtube.com/watch?v=EcGzC CJ-2dc&feature=youtu.be	<i>Tutorial on how to use the LaTeX templates of EIT faculty of OvGU for thesis report and final presentation</i>
http://tug.ctan.org/info/symbols/comprehensive/symbols-a4.pdf	<i>Comprehensive LaTeX symbol list</i>
http://www.citavi.com/sub/manual4/en/index.html?feature_overview.html	<i>User manual of Citavi 4</i>
http://www.ntg.nl/doc/biemesderfer/ltxcr ib.pdf	<i>Summary of LaTeX commands</i>



Citavi and JabRef

Brief step-by-step demo of the given example

Thanks for Your Attention!

www.ovgu.de