Written (Scientific) Presentations

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UdS & DFKI

Seminar WE4NLP – Winter Semester 2017/2018

30th October 2017

WWW.PHDCOMICS.COM

Outline

Introduction

Before starting to write an article...

think on:

1. The research question
2. The kind of paper
3. The length of the paper

Introduction

Before starting to write an article...

think on:

1. The research question
2. The kind of paper
3. The length of the paper
4. The content & structure

Introduction

Common types of articles

- Journal article
- Short article/letter
- Review article
- Conference paper
- Short conference paper
- System description paper
- ...

Introduction

Topics not covered here

- How to choose the research question(s)
- How to do the research
- How to choose where to publish
- ...

Content & Structure

Content & Structure

Introduction, Development, and End

A paper tells the story of your research

in a coherent and concise way

Content & Structure

Standard Structure

1. Title
2. Abstract
3. Keywords

Content & Structure

Standard Structure

1. Title
2. Abstract
3. Keywords

4. Introduction
5. State of the art

Content & Structure

Standard Structure

1. Title
2. Abstract
3. Keywords
4. Introduction
5. State of the art
6. Model
7. Method

Content & Structure

Standard Structure

1. Title
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6. Model
7. Method
8. Experiments
9. Discussion
10. Conclusions

Content & Structure

Standard Structure

1. Title
2. Abstract
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4. Introduction
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6. Model
7. Method
8. Experiments
9. Discussion
10. Conclusions
11. Acknowledgements
12. References

Content & Structure

Reference

Springer Recommendations

https://www.springer.com/us/authors-editors/authorandreviewertutorials/writing-a-journal-manuscript

Content & Structure

Title, Abstract and Keywords

The **title** must grab the attention of potential readers

- Convey the main topics of the study
- Highlight the importance of the research
- Be concise
- Attract readers

Content & Structure

Title, Abstract and Keywords

The **abstract** must be a stand alone summary

- What was done?
- Why did you do it?
- What did you find?
- Why are these findings useful and important?

Content & Structure

Introduction

The **introduction** must give some background to the reader

- What problem was studied?
- Which is the purpose?
- Why is it important?
- What have you done?
- *The rest of the paper is organised as follows...*

Content & Structure

State of the art

The **state of the art** is a review of the relevant related literature

- Gives context to your study
- How differs from previous work?
- How affects your work?

Content & Structure

State of the art

The **state of the art** is a review of the relevant related literature

- Gives context to your study
- How differs from previous work?
- How affects your work?

No *mandatory* position. After the introduction? With the discussion?

Content & Structure

Model

The **model** describes your theoretical part (if present)

- Derive your equations
- Describe the system
- Be as detailed as possible

Content & Structure

Method

The **method** describes your experimental part (if present)

- Describe how you conducted the experiments
- Details should be enough to reproduce them
- State all statistical tests
- Use the past tense

Content & Structure

Results

The **results** state what you found

- Present them in a logical order
- Do not duplicate data among figures, tables, and text
- Include the results of statistical analyses
- Use the past tense

Content & Structure

Discussion

The **discussion** is the analysis of the results

- Discuss your experiments
- Compare your results with those from other studies
- Mention any inconclusive results and try explain them
- Discuss what your results may mean

Content & Structure

Discussion

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- Discuss your experiments
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- Discuss what your results may mean

No *mandatory* position. With results? Conclusions? Alone?

Content & Structure

Conclusions

The **conclusions** put an end to the story

- Summarise your work
- Describe the strong points of the study
- Describe the limitations of your study
- If your findings are preliminary, suggest future studies

Content & Structure

Acknowledgements & References

The **acknowledgements** give credit to

- People who help
- Funding

The **references** group together all the cites

- Author, title, journal/conference, year, pages
- Different notations

Content & Structure

References

Sample Bibliography

This is an example of a LaTeX document with a short bibliography generated from a call to the libguide.bib BibTeX citation database. In this example, we refer to papers co-written by several Bates faculty [1, 2, 3].

References

[1] D. Goncalves, P. Wong, and X. Zhao. Fixed point theory of spherical 3-manifolds. *Topology and its Applications*, 181:134–149, February 2015.

[2] K. L. Cottingham, H. A. Ewing, M. L. Greer, C. C. Carey, and K. C. Weathers. Cyanobacteria as biological drivers of lake nitrogen and phosphorus cycling. *Ecosphere*, 6(1):art1, January 2015. 10.1890/ES14-00174.1.

[3] N. Lundblad, S. Ansari, Y. Guo, and E. Moan. Observations of /4 structure in a low-loss radio-frequency-dressed optical lattice. *Physical Review A - Atomic, Molecular, and Optical Physics*, 90(5):art1, November 2014. 10.1103/PhysRevA.90.053612.

[Lau76; Wil99; Bae04; Cic95]

References

[Bae04] John C. Baez and Aaron D. Lauda. "Higher-Dimensional Algebra V: 2-Groups". Version 3. In: *Theory and Applications of Categories* 12 (2004), pp. 423–491. arXiv: `math/0307200v3`.

[Cic95] Marcus Tullius Cicero. *De natura deorum. Über das Wesen der Götter.* Latin and German. Ed. and trans. by Ursula Blank-Sangmeister. With an afterw. by Klaus Thraede. Stuttgart: Reclam, 1995.

[Lau76] Kurt Laue and Helmut Stenger. *Strangpressen: Verfahren, Maschinen, Werkzeuge*. 1976.

[Wil99] Oscar Wilde. *The Importance of Being Earnest: A Trivial Comedy for Serious People*. English and American drama of the Nineteenth Century. Leonard Smithers and Company, 1899. Google Books: `4HIWAAAAYAAJ`.

Content & Structure

References

This is a citation Newman (2014), '10 Countries That Have Secular Governments' (2014), Wallace (1966), MiddleKid (2007).

References

MiddleKid. (2007, January 22). Re: The unfortunate prerequisites and consequences of partitioning your mind [Web log comment]. Retrieved from http : / / scienceblogs . com / pharyngula / 2007 / 01 / the _ unfortunate _ prerequisites.php

Newman, S. (2014, July 4). Religion in the middle ages. Retrieved July 4, 2014, from http://www.thefinertimes.com/Middle-Ages/religion-in-the-middle-ages.html. (The Finer Times: War, Crime and History Resource)

10 Countries That Have Secular Governments. (2014, July 11). Retrieved July 11, 2014, from http://religion.answers.com/secularism/10-countries-that-have-secular-governments

Wallace, A. (1966). *Religion: an anthropological view.* New York: Random House.

Content & Structure

References

Add a **reference** to

- Establish the origin of ideas
- Justify claims
- Provide a context for your work
- Show there is interest your field of research

Tips & Recommendations

Tips & Recommendations

General

1. Use LaTeX
2. Use LaTeX & BibTeX
3. Use LaTeX & BibTeX & Beamer

Tips & Recommendations

Similarly to talks...

- Stand alone tables & figures
- Make readable tables
- Readable plots with axis and labels
- Non-misleading information
- Acknowledge other's data

Tips & Recommendations

Tables

- Write a clear and concise legend/caption
- Write only the significant digits
- Provide units when needed
- Mark statistical significance when possible
- Use legible font type and size

Tips & Recommendations

Tables

Table 7: BLEU scores for translations involving languages not seen at all in training, es and fr, on the *tst2010* under the zero-shot training condition.

	beam size		factors + 4-ensembles			
	w5	w10	w	wpsm	wb	wpsmb
$en2fr$	1.08	1.10	**1.11**	1.00	1.04	1.04
$fr2en$	2.36	2.11	2.41	3.63	**5.07**	5.02
$en2es$	1.18	1.25	1.29	0.99	1.02	**1.36**
$es2en$	2.93	2.69	3.09	4.87	6.75	**7.25**

Tips & Recommendations

Plots

- Write a clear and concise legend/caption
- Label all axes
- Specify units for quantities
- Label all curves and data sets
- Use distinct colors/line styles
- Use legible font type and size

Tips & Recommendations

Plots

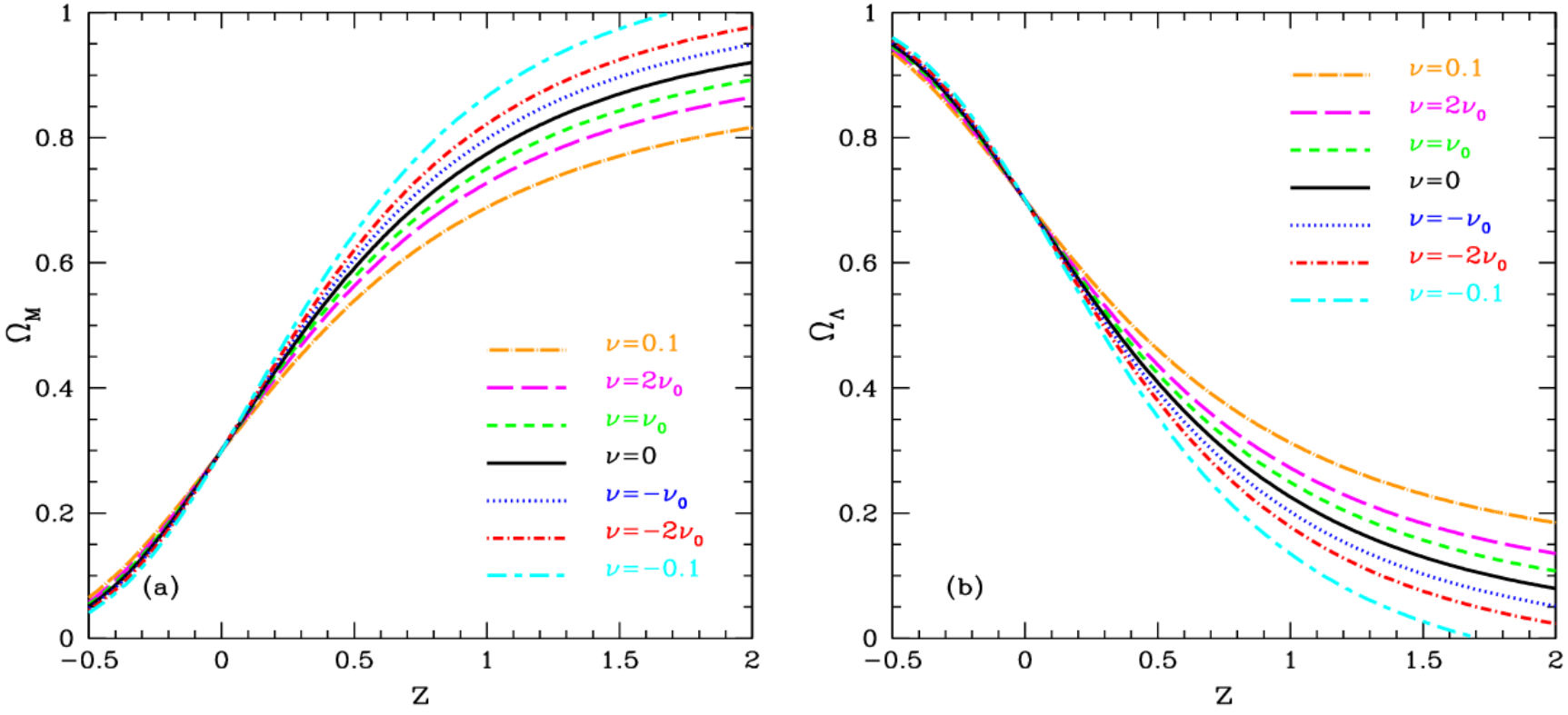

Figure 2: $\Omega_M(z;\nu)$ and $\Omega_\Lambda(z;\nu)$ versus redshift for a flat universe and different values of the parameter ν, with Ω_M^0 and Ω_Λ^0 as in Fig. 1.

References & Remarks

References & Remarks

Where to know more

- Publishers such as Springer or Elsevier have tutorials
- Follow style guides
- Learn by reading others' papers

References & Remarks

Term paper

1. The research question
   assigned/choosen topic

2. The kind of paper
   Conference paper

3. The length of the paper
   8 pages + references

References & Remarks

Term paper

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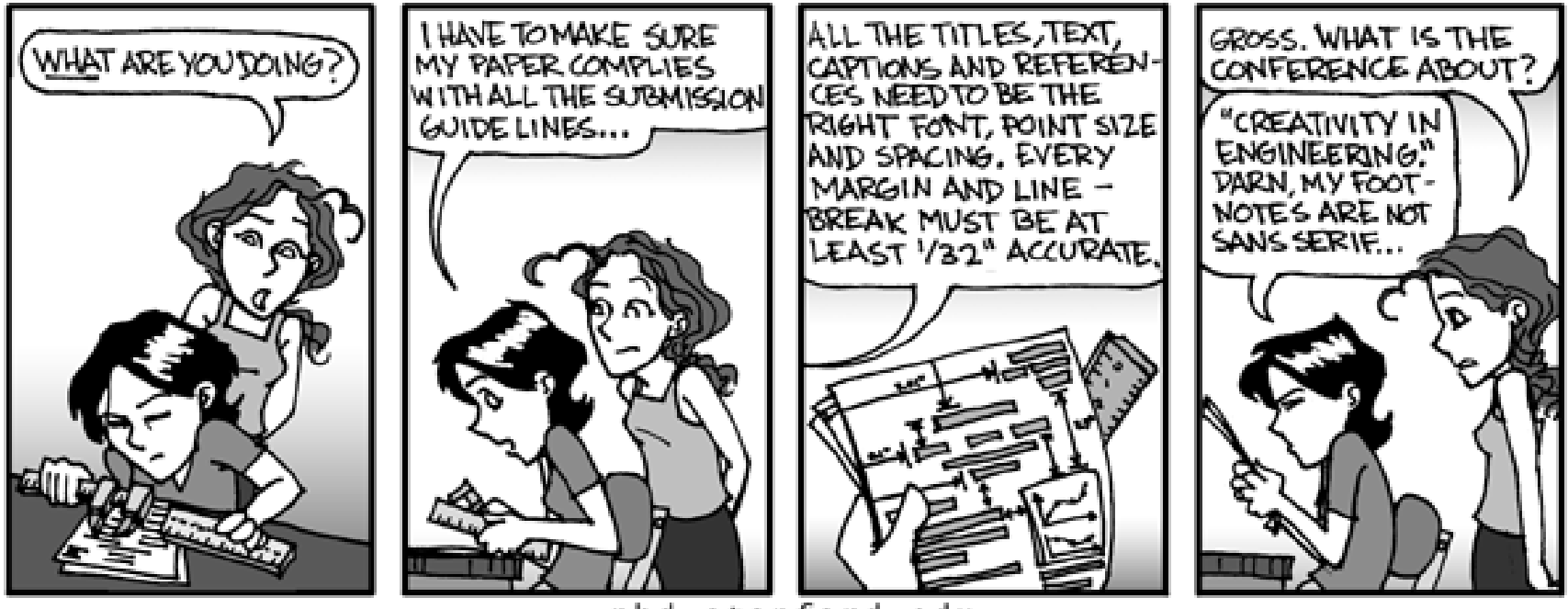
   Conference paper
3. The length of the paper
   8 pages + references
4. The content & structure
   follow the previous structure

References & Remarks

Term paper



Thanks!

Questions?

Thanks!

Criticisms?

Not a good oral presentation!

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