

# Current Developments in Database Research

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Department of Technical and Business Information Systems  
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University of Magdeburg

Seminar – Wintersemester 2006/07

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# Outline

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## 1. Topics of the seminar

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# Outline

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1. Topics of the seminar
2. Literature sources

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3. Seminar requirements

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1. Topics of the seminar
2. Literature sources
3. Seminar requirements
4. Slides for a scientific presentation

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5. Further organizational remarks

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6. Latex Beamer Information

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5. Further organizational remarks
6. Latex Beamer Information
7. Literature



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# Topics of the seminar

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- Presentation of current database research directions by **students of the seminar**
- Several important database conferences
  - **VLDB**
  - SIGMOD
  - PODS
  - ICDE
- Numerous sessions on all current database topics
  - OLAP, Data Streams, XML, Query Processing, ...
  - **Research, Industrial**, Demo sessions

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## Topics of the seminar II

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- VLDB 2005 and 2006 available online
  - <http://www.informatik.uni-trier.de/~ley/db/conf/vldb/vldb2006.html>
  - <http://www.informatik.uni-trier.de/~ley/db/conf/vldb/vldb2005.html>
  - (links are on the seminar web page)
- Every students gets assigned one research paper, that she/he will present in the seminar
- To assign the papers
  - Every student picks 2 papers from the research or industrial sessions based on own interests until Oct 23rd (next Monday)
  - Final assignments are discussed on Oct 23rd
  - In case of interest conflict, we can switch from primary to secondary selection

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# Literature sources

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- Basic DB literature from the library, etc.
- Related research papers:
  - DBLP
  - CiteSeer
  - Google (Scholar)

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# Seminar requirements

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- Presentation of approximately 30 min
- 15 min question and answer
- Participation in **at least all-1** seminar dates

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# Slides for a scientific presentation I

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- Contents
  - Title: paper title + names of original authors
  - Overview
  - Foundations
  - Main contents
  - Summary
  - References (presented paper + everything else that was used for presentation)
- At most one topic per slide, do not overload your slides
- A title for every slide
- Headwords, no sentences
- Sufficient space between headwords

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## Slides for a scientific presentation II

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- This presentation style is recommended (can be found on seminar web page)
- Powerpoint is also ok: style can be found on the webpage
- Other LaTeX Beamer style slides are also welcome
- Use sans-serif fonts (Arial/Helvetica recommended)
- Graphics etc.
  - No scanned graphics, only vector graphics!
  - Same goes for tables etc.
  - Use colors where necessary, but don't overdo

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## Slides for a scientific presentation III

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- Name, date, and page number on every slide
- Number of slides should match 30 min time frame
  - 12 to 20 slides for 30 minutes, depends on contents and speaker
  - Try it!
- Think of your audience (background knowledge, experience, etc.)!!!

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## Further organizational remarks

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- Presentation dates will be in Dec and Jan (will be clarified on Oct 23rd)
- Send a raw version of your presentation 2 weeks before your assigned date
- For presentation
  - Either bring your own laptop or
  - Send your presentation not later than Thursday, 4 days before your presentation
- **If you need help or anything is unclear, contact your supervisor!**



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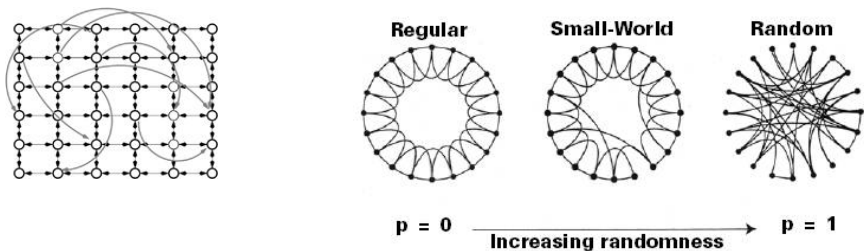
# Latex Beamer Information

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- Source:
  - Homepage: <http://latex-beamer.sourceforge.net/>
  - Mostly: installed by default in your latex distribution
- User and installation guide:  
[http://sourceforge.net/docman/?group\\_id=92412](http://sourceforge.net/docman/?group_id=92412)
- Special latex class for presentations
- Provides different style templates, overlays, etc.

# Figure example

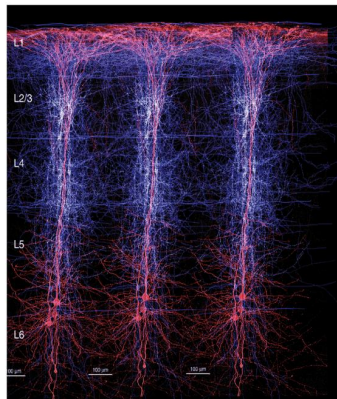
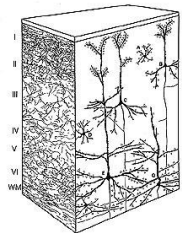
- Figures help to illustrate scientific approaches
- Of Course, you can also use figures



**Figure 1.** Progression from regularity to randomness, beginning with a small ring graph in which  $n = 20$ ,  $k = 4$ . (Figures 1 and 2 adapted from [3].)

## Some more figure examples

- Some more figures
- This time we use another layout



The activity in the Neocortex is tightly control by inhibitory neurons. Shown here are the inhibitory fibers in blue that wrap around the pyramidal neurons, in red, in order to control their activity and prevent epilepsy.

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# Literature References

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- Best way: usage of **BibTeX**
- The BibTeX components are:
  - Bibtex file (suffix `.bib`) contains all literature references
  - Command `\cite` specifies references in the document
  - Example: `\cite{bond05}` → [Bon05]
  - Command `\bibliography` generates the list of references
  - Example:

```
\bibliographystyle{alpha}
\bibliography{presentation}
```
- Usage
  1. latex document
  2. bibtex document
  3. 2x latex document

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# Literature

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[AA0x] M. Author1 and A. Author2.

Conference paper title.

In Editors of the conference book, editor, *The Conference proceedings title*, pages 100 – 110. The publisher of the conf., 200x.

[Bon05] James Bond.

The World is not Enough.

*The International Spy Journal*, 10(2):100–110, June 2005.