

DB&IS Seminar
Wintersemester 2019/20

Lehrgebiet Informationssysteme
TU Kaiserslautern

Aim of This Seminar

- Critically read and understand a research paper.
- Prepare a presentation and give a talk on a research paper.
- Learn novel concepts and recent developments of databases and information systems.

Organizing Groups

- **Databases and Information Systems (DBIS)**
<https://dbis.informatik.uni-kl.de/>
- **Heterogeneous Information Systems (HIS)**
<http://wwwlgis.informatik.uni-kl.de/>
- Main contact for *organizational* matters: Manuel Dossinger (dossinger@cs.uni-kl.de).
- For further email addresses and rooms see websites.
- Please include [\[db-seminar\]](#) in the subject of your emails.

Process

1. Reading and Understanding



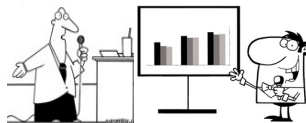
2. Slide Preparation



3. Peer Reviewing



4. Moderating & Presenting



Process: Reading and Understanding the Paper

- Research papers are dense texts written by experts for experts.
- You are the budding experts!
- There is no golden rule for reading papers. Depends on
 - the community
 - the type of paper (theory, system, ...)
 - your experiences

reading a research paper

Web Bilder Videos Nachrichten

Deutschland Sichere Suche: Moderat Irgendwann

Reading Research bei Amazon.de - Niedrige Preise, Riesenauswahl WERBUNG
Kostenlose Lieferung möglich
Prime Video, Prime 30 Tage testen, Angebote des Tages
[www.amazon.de/Reading Research](http://www.amazon.de/Reading-Research) | Werbung melden

PDF: How to read a research paper. - Computer Science
careful **reading**. When you read a **research paper**, your goal is to understand the scientific contributions the authors are making.
<https://eecs.harvard.edu/~michaelm/posts/scripts/ReadPaper.pdf>

How to Read and Understand a Scientific Paper: A Step-by-Step Gu...
Reading and understanding **research papers** is a skill that every single doctor and scientist has had ... How to Read and Understand a Scientific Paper: ...
<https://huffingtonpost.com/jennifer-raff/how-to-read-and-understand-...>

Infographic: How to read a scientific paper - Elsevier Connect
Much of a scientist's work involves **reading research papers**, whether it's to stay up to date in their field, advance their scientific understanding, review ...
<https://elsevier.com/connect/infographic-how-to-read-a-scienti...>

How to (seriously) read a scientific paper | Science | AAAS
When **reading papers**, ... If the **paper** is vital to my research—and if it is theoretical—I would reinvent the **paper**. In such cases, ...
<https://sciencemag.org/careers/2016/03/how-seriously-read-scient...>

How to Read a Research Paper - YouTube
Ever wondered how I consume **research** so fast? I'm going to describe the process I use to read

Process: Reading and Understanding the Paper

- Two more weeks for understanding the authors' contributions.
- Guideline for reading and understanding:
 - Recognize the research problem authors have addressed.
 - Understand the authors' contributions to the problem.
 - Raise appropriate questions and find limitations of the paper.
[e.g., are authors' assumptions to propose the solution reasonable?,
the logic of the solution justifiable?,
is there any simpler way to approach the solution?, etc.]
- Have a look on the related works of the paper for better understanding of the scope of the research problem.
- Think: Your tutor might ask you to tell in 4-5 sentences what the paper is about.

First Appointment with Your Tutor

- Schedule an appointment with your tutor, to take place **not later than 16th November**.
 - Before that meeting, write a short (5000-5500 characters) summary. For this, you find a template on the seminar webpage.
 - Send the summary to the tutor before the appointment.
 - Bring along or send before the intended outline (incl. rough timeline) of your presentation to discuss it with your tutor.
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- **Each student must show a solid understanding of a paper and outline of the presentation slides.**

Process: Slide Preparation

- Almost one month for making slides.
 - Consult with your tutor for any difficulties in slide preparation.
 - Remember that you must explain the content of the slides to the tutor.
 - Send your No-left-TODO version of slides to the tutor **at latest 13th December**.
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- **Each student must complete No-left-TODO presentation.**

Process: Slide Preparation

Always remember: **Most of the audience does not know the paper and wants to learn something!**

Good Practice

- Mention slide numbers.
- Cite papers correctly.
- **Do not copy!**
- Put reference to the source of copied figures, equations, etc.
- Custom illustrations and animations can help.

Process: Slide Preparation

Good Practice

- Try to avoid including long sentences in your slides.
- Examples and figures are more preferable.
- A good presentation should tell a story.
- Do not use small fonts.
- Do not overfill your slides with text or figures.

Process: Intro Talk

- Short talk, ~10 minutes
- Introduce the topic and main idea
- Date: **SCHEDULE NOW**
- Mandatory participation
- mid-end of November

Process: Intro Talk

Intention

- Not graded (no Professors)
- Presenters see if they can convey the scientific problem
- Audience provides feedback about form and content

Content

- Depends on the paper ;)
- Scientific problem statement (e.g., enumerate join plans)
- Short-Overview on Approach (e.g., use Greedy Algorithms)
- Not: In-depth implementation
- Not: Evaluation

Process: Peer Reviewing

- Peer students will be assigned by end of December.
- Provide feedback to your peer student's slides **within 17th January**.
- In the emails to the peer student CC your supervisor.
- Now, sit back and wait for the reviews.
- Incorporate the reviews into your final presentation.
- **Send the final presentation to your tutor *until TBD***
- **Each student has now their final presentation for the seminar.**

Process: Presentation

- 45 min. will be assigned to each student for their talk on the assigned paper following a 15 min. Q&A session.
- Talk and slides should be in English (don't worry—nobody here is native speaker).
- Peer student as a moderator should introduce the speaker and lead the Q&A session.
- **Everybody** is expected to ask questions.
- Prepare a couple of own questions (as fallback).

Process: Presentation

- Presentations should be **45 min.** Large deviations will affect the grading/passing of the seminar.
- When presenting do not read from the slides.
- **Practice your talk at home.**

Submission of Final Report

- Submit a short report (not longer than 4 pages). Report should include:
 - Motivation and problem statement.
 - Brief discussion on main approach and experimental results.
 - Conclusion of the work in your own words mentioning strong and weak points of the paper.
- **Do not copy and paste from the paper.**
- Use the \LaTeX -template.

Process: Grading / Passing

Grading/Assessment based on

- Quality of presentation slides and ability to explain the work of the assigned paper.
- Ability to answer and discuss the questions raised in Q&A session.
- Performance in engaging yourself in others' Q&A session.
- Evaluation on 4-pages report.
- Participation in general in the seminar as a moderator or peer reviewer.

Process: Grading / Passing

Attention!

- Missing deadlines will not be accepted. All deadlines with respect to local time zone (Kaiserslautern).
- Attend all the talks.
 - In case of absence please contact beforehand with valid reasons (e.g., illness or exams).

Misc: How to Fail the Seminar

- Miss a submission deadline.
- Copy text passages from your assigned paper.
- Copy text from other resources.
- Copy the presentation from, e.g., original authors.
- Do not understand the contents of your paper.

Summary

- Understanding → Slides → Presentation → Report.
- This slide deck and a list of deadlines are available on <https://dbis.cs.uni-kl.de/index.php/en/teaching/winter-2019-20/dbis-seminar>.
- Convenience calendar available at <https://dbis.cs.uni-kl.de/files/teaching/ws1920/seminar/seminar.ics>.
- Also, on this webpage you find more information and the schedule (eventually).

Thank You for Your Attention!

