

Wissenschaftliches Arbeiten und Lehren Seminar mit integriertem Praktikum

Dr. Michael Schiffers

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SEMINAR UND PRAKTIKUM IM WINTERSEMESTER 2018/19



Wissenschaftliches Arbeiten Seminar und Praktikum im Wintersemester 2018/19 Dr. Michael Schiffers

Part I

- Syllabus
- Seminar Structure

- SPWAL Research Projects
- Grading
- Exercises



Table of Contents

- Syllabus
- 2 Seminar Structure
- SPWAL Research Projects
- Grading
- 5 Exercises



Topics

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- ... the seminar's success heavily depends on your participation and your project work,
- ... we will discuss and review almost entirely English literature.



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This is a seminar

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- This is a seminar
- with an (integrated) hands-on training.

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- This is a seminar
- with an (integrated) hands-on training.
- Part of the Master Program (obligatory, mandatory, elective)
- 6 ECTS credits
- pass/fail only
 - complimentary grades

Calendar

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Seminar und Praktikum
im Wintersemester 2018/19
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No in-class (!) lectures ...

- December 18th (midterm sync)
- December 25th (xmas)
- January 1st (new year)
- January 8th (devoted to writing)

Download

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Script, exercises, literature

- completely available from the download area of the seminar's home page (unless otherwise stated)
- weekly updates
- exercise sheets are available from both UniWorX and the download area

Access to the Download Area

Seminar Home Page > Downloads (or directly)

User-ID:SPWAL

Password: ws2018::Munich



Just in Case ...

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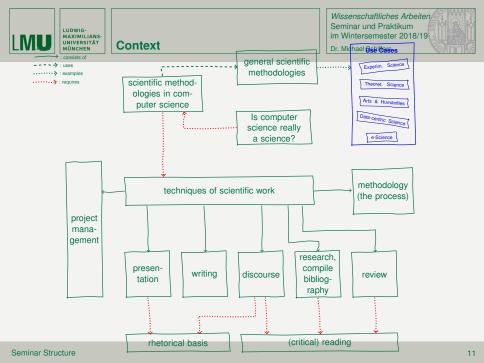
Dr. Michael Schiffers

Web Page

spwal@nm.ifi.lmu.de

Table of Contents

- Syllabus
- Seminar Structure
- **3 SPWAL Research Projects**
- 4 Grading
- 5 Exercises





Seminar, Exercises, Project

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Project report progress techniques Seminar apply techniques, in-depth-studies prepare seminar session

Exercises

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- group exercises and individual exercises
- For completing the exercises you have (mostly) six days.
- Download the exercises either from the UniWorX system or from the download area of the seminar's home page.
- You must submit the solutions via UniWorX! (no exceptions)
- Completion of all exercises is mandatory!

Seminar Structure 1



Table of Contents

- Syllabus
- Seminar Structure
- SPWAL Research Projects
- 4 Grading
- 5 Exercises



SPWAL Research Projects (SRP)

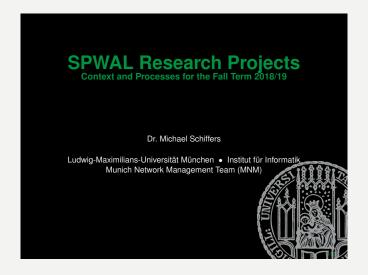


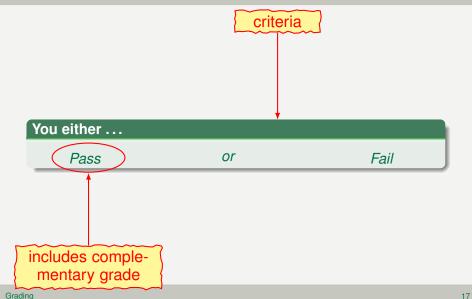


Table of Contents

- Syllabus
- 2 Seminar Structure
- SPWAL Research Projects
- Grading
- 5 Exercises



Examination Regulations



Pass/Fail Criteria

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To pass successfully, you ...

- need to *sucessfully* participate in an SRP,
 - "successfully" means: achieve 70% of all points
- need to submit all required exercises in right time,
 - "right time" means: within UniWorX acceptance slot
- need to participate in all class room sessions (unless you are absent with valid excuse)

Note

These rules are strictly observed!



Grading

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Base Grade

"1.0"

Grades are lowered ...

- per unexcused absence by 1.0 points
- by low SRP grading (points depend on achievement)
- by 10% of difference between maximally achievable exercise points and actually achieved ones (max 2.0 points)
- by low participation in class room sessions (0.5 points if you neither presented any home work nor your project's current status)

Grading 19



Any Questions?





Table of Contents

- Syllabus
- 2 Seminar Structure
- SPWAL Research Projects
- Grading
- **5** Exercises



Exercises

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Seminar Wissenschaftliches Arbeiten

(Dr. M. Schiffers) Wintersemester 2018/19

Work Shoot I

Upload your solutions (via UniWorX only – unless otherwise stated) latest by 20.10.2018, 12:00.

Evencuer

YOU NEED TO PARTICIPATE in an SPWAL Research Project (SRP).¹
The purpose of an SRP is to do some methodologically sound research in a supervised and controlled hands-on training environ-

However, it is not intended to execute the projects as a "one person show". Consequently, teamworking is not only strongly recommended, it is definitely essential. In other words, you need to join a team. Be aware that the teams will not change during the

semsoler.

It is very important to understand that hiding yourself behind
the team's _firewall* without contributing to the team's success
will be disadvantageous for both the groups's _hygiene* and your
personal grading.

CONSEQUENTLY, THIS EXERCISE consists of the following tasks:

- 1. Join a team
- 2. Give your team a name
- 3. The team agrees on the SPWAL Research Area (SRA). $^{2}\,$
- 4. Determine your team's spokesperson.3
- Have the spokesperson send an email to spwal@nm.ifi.lmu.de to communicate the team's name, the member list, and the selected SRA4.

* see the student's handout in the Seminar-Repository * no panic, this role is relevant only for

"see the student's handout in the

You may decide to change the SEA while working on the SEP proposal. Ear he aware that the final proposal is due on November 19th (see the student's handest in the Semirar-

RCISE 2

THIS EXERCISE CONSISTS OF A "PAPER STATEMENT", a type of exercise you will encounter sometimes. Whenever you are requested to prepare a paper statement, you need to fulfill the following obiectives – unless otherwise stated:

- 1. to read the paper
- 2. to analyze the paper according to given criteria
- 3. to summarize your analysis⁵
- to upload your summary to UniWorX
 to be prepared to present your analysis⁶

Now, GIVEN THESE OBJECTIVES, propare a paper statement (preferably in German, but English is also ok) for the paper "MapReduce: simplified data processing on large clusters" [Dean and Chemanvat, 2004 Which you can find in the Seminar-Repository?

- PLEASE USE THE FOLLOWING CRITERIA for your analysis.⁵
- 1. Is the paper understandable?
- 2. Does the paper mention a clear problem statement? Which is it?
- Do the authors present a solution to the problem? Which one?
 Is there an explicit and sufficiently elaborated state-of-the-art from where you could determine the ears the other are maches
- exhibit?

 5. Are you able to identify the methodology the authors apply to solve their problem? If so, explain it. If not, elaborate what you
- What are the main differences between their "Abstract", their .Introduction", and their .Conclusions"?

UPLOAD YOUR STATEMENT to UniWorX and be prepared to present your analysis.

EXERCISE 3

think is missing?

USING THE SAME CRITERIA as before, write a paper statement for the paper "Web Erabled Tool for Parallel Application Development and Performance Analysis". You can find the paper in the Seminar-Repository.⁹ maximum 250 to 300 words

* no formal presentation, maximum three minutes

⁷ The paper is here.

⁴ The important point here is that yor should look at the paper from your personal (and therefore subjective) perspective?

*The paper is been.





References so far

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