

# Seminar Summer Term 2016

## Forgetting and Relevance

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<sup>1</sup>Possibly

<sup>2</sup>Probably

<sup>3</sup>Probably

<sup>4</sup>That's me



What is this seminar about?

- Contrary to popular opinion, forgetting is often good
- Human forgetting is important but complex
  - Avoids information overload
  - We can remember stuff
- Formalising forgetting is very hard
  - Forgetting is more than deleting
  - Even deleting is very hard; needs second-order logic
  - ...except that sometimes it doesn't
  - Know  $P$ . Know that  $P$  implies  $Q$ . Forget  $P$ . Do you know  $Q$ ?
  - What's relevant for  $P$ ?



- Seminar counts as one of:
  - Bachelor seminar or
  - Master seminar in theoretical computer science or
  - Master seminar in data & information management
- Your task is to
  - read paper(s) about a topic
  - write and talk about it
  - read and listen to the others, give feedback
- These slides are available on the seminar website for future reference  
[www.kbsg.rwth-aachen.de/teaching/SS2016/SemFAR](http://www.kbsg.rwth-aachen.de/teaching/SS2016/SemFAR)



Five stages:

- |   |                 |
|---|-----------------|
| <b>1</b> Understand literature; explain to advisor  | 5 weeks         |
| <b>2</b> Write and submit the seminar paper         | 8 weeks         |
| <b>3</b> Review two fellow students' seminar papers | 2 weeks         |
| <b>4</b> Prepare final seminar paper and slides     | 4 weeks         |
| <b>5</b> Give talk, listen to others, ask questions | 6/7/8 July 2016 |



- One or two papers assigned to each topic
- Read them from top to bottom
- Understand them thoroughly
- Sometimes: have a look at basic or related literature
  - check the bibliography of the paper(s) assigned to your topic
  - ask your advisor for suggestions
  - to understand the basics, or
  - to compare to other approaches
  - usually no need to read the complete paper, but
  - be sure enough what it's about before
- What's good / bad about the approach?



- Your seminar paper should
  - summarise the paper(s) assigned to your topic
  - give an overview of the topic
  - convey the **idea** and **intuition**
  - **make the topic understandable to the other students**
  - write what's good / bad
- 12 pages
  - in der Kürze liegt die Würze
  - it's not easy to be concise
  - carefully select what you want to present
- English and LaTeX mandatory
- Use the template from the seminar website



- Your review should
  - help your fellow student to improve his seminar paper
  - prove that you read it thoroughly
- Typical structure
  - Summary of the seminar paper ( $\approx$  3 sentences)
  - Things you liked about it ( $\approx$  1 paragraph)
  - Major comments (e.g., what's hard to understand?)
  - Minor comments (e.g., typos)
- Reviewing should be **anonymous**
- **Plain text** following the above structure
- Do **not** annotate the seminar paper inline (no attachments)



- Read reviews
- Revise your paper accordingly





- Your talk should
  - convey the **idea** and **intuition**
  - as well as the **major results**
  - show that you know what you're talking about
- Try to offer something for everybody:
  - start gently with informal examples
    - to motivate problem and sketch solution (first 40%)
  - then go deeper into details (next 30%)
  - conclude at a high level of abstraction (last 10%)
- Tips
  - motivate with an example
  - keep that example to illustrate results during the talk
  - avoid formulas, use example and pictures instead
  - be prepared for questions (perhaps with back-up slides)
  - do NOT take this slide as an example :-)
- 25 minutes talk + 10 minutes discussion
  - do not exceed 25 minutes, practice your talk
  - rule of thumb: at least 90 seconds per slide
- English and PDF preferred



- We use a conference system (EasyChair) for the seminar
- Seminar paper must be submitted there
- Reviews must be submitted there
- Revised seminar paper must be submitted there
  
- Deadlines are **firm**
- You can update your submission until the deadline
- There's no excuse for missing deadlines
  
- [www.easychair.org/conferences/?conf=semfar2016](http://www.easychair.org/conferences/?conf=semfar2016)



The final grade is the weighted mean of

- the reviews you wrote (10%)
- your final paper (50%)
- your talk (40%)



Up to **three weeks from now on** you are allowed to recede from the seminar without any consequences.  
A later rescission will be graded as a failed attempt!



- 1 Second-Order Quantifier Elimination
- 2 Forgetting in Proper<sup>+</sup> Knowledge Bases
- 3 Necessary Sufficient Conditions
- 4 Forgetting in Description Logics and Logic Programs
- 5 Forgetting Description Logics
- 6 Forgetting Logic Programs
- 7 Forgetting in Modal Logic
- 8 Implicit and Explicit Relevance
- 9 Propositional Independence
- 10 Logical Conditional Independence
- 11 Relevance in Belief Structures
- 12 Relevance through Letter Sharing and Belief Change
- 13 Reasoning under Inconsistency

2015-03-22:	Introductory meeting	
2016-03-22:	Get an EasyChair <sup>5</sup> account, download paper(s)	
2016-04-15:	Discuss literature with your supervisor <sup>6</sup>	4 weeks
2016-05-27:	Paper submission deadline <sup>7</sup>	6 weeks
2016-06-10:	Review deadline <sup>8</sup>	2 weeks
2016-07-01:	Paper camera-ready version <sup>9</sup>	3 weeks
2016-07-06/07/08:	Seminar talks	1–3 days

Keep the deadlines:

You can *update* your submission at EasyChair!

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<sup>5</sup>[www.easychair.org/conferences/?conf=semfar2016](http://www.easychair.org/conferences/?conf=semfar2016)

<sup>6</sup>That's the only deadline that's not firm. It's more of a recommendation.

<sup>7</sup>By this date you *must* have submitted

<sup>8</sup>By this date you *must* have written and submitted your reviews

<sup>9</sup>By this date you *must* have submitted your final seminar paper