

Academic Skills in Software Engineering (ASiSE)

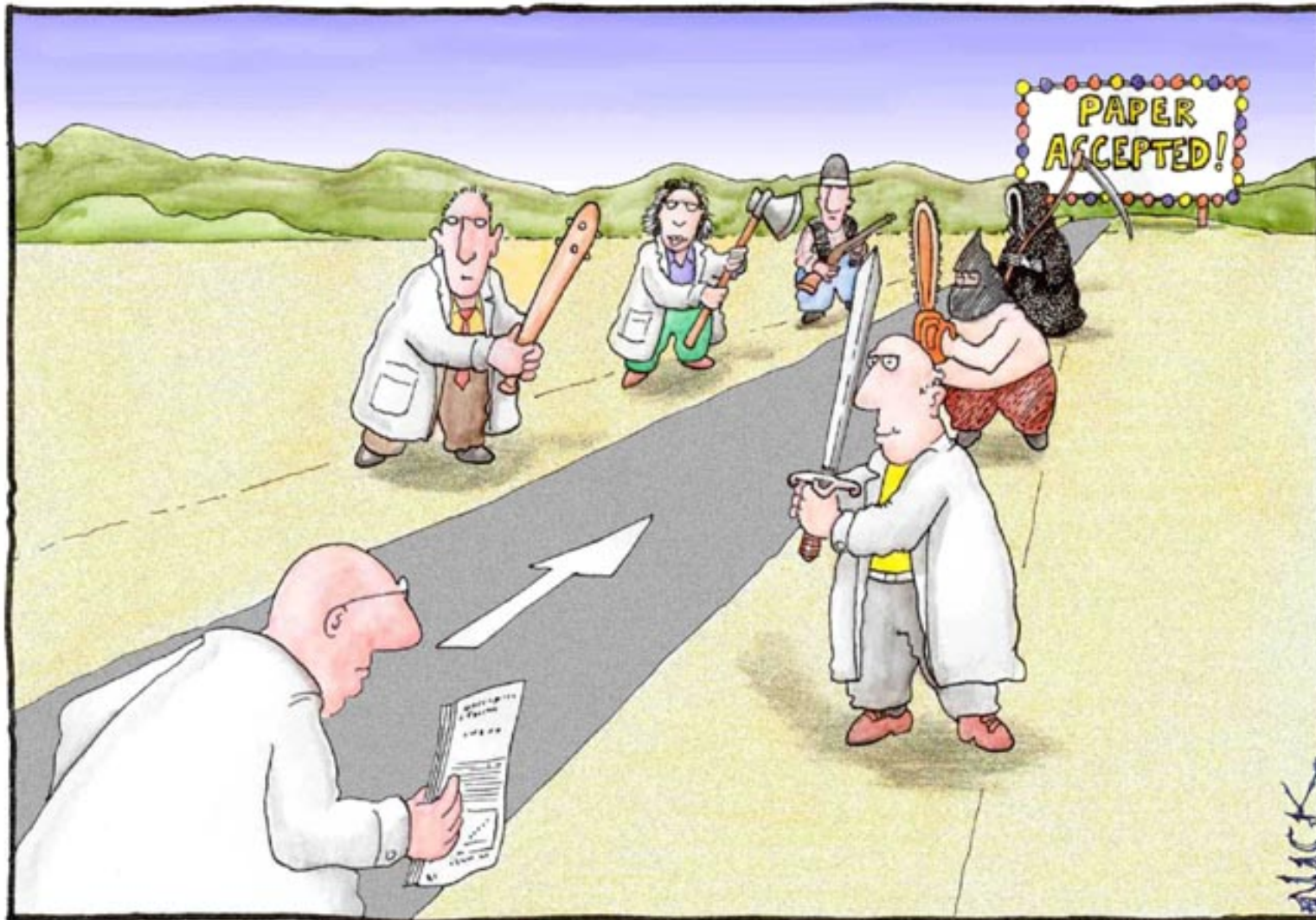
Organization

Exercise

Tuesday, 5. DS, APB/E007

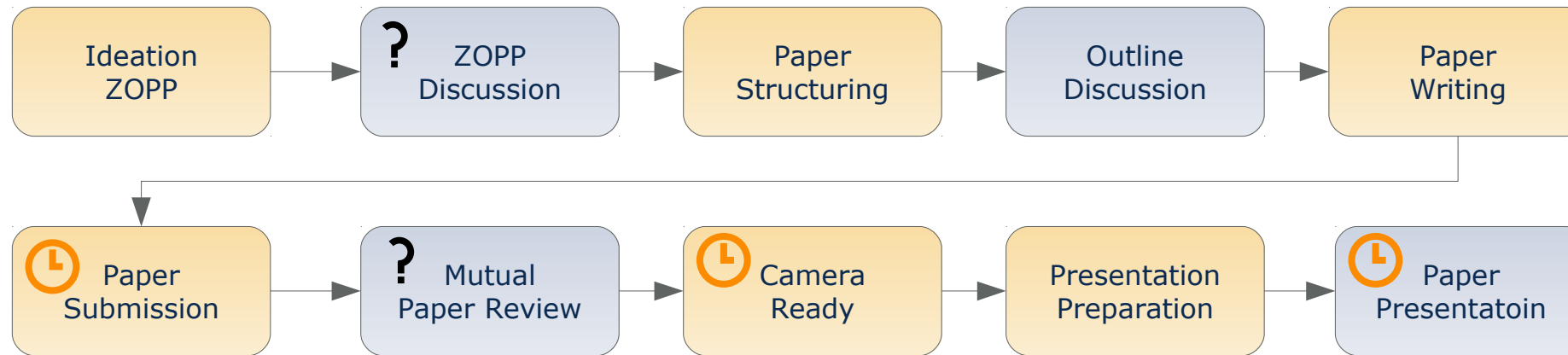
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Most scientists regarded the new streamlined peer-review process
as "quite an improvement."

Cartoon by Nick D'Kim strange-matter.net. Used by permission.



- Emulate a typical review process
- Students perform a cross review of their own papers
 - Directly via *EasyChair.org*⁵
 - *More later*

5) easychair.org

- Pick a research topic within **computer science**
- Work alone or in groups of two
- Give a presentation on your topic
 - 30 minutes presentation
 - Practice giving presentations
 - Follow the advise provided throughout the course
- Writing a research paper
 - 4-5 pages two column paper
 - Preferably use LaTeX
 - Style: *ACM SIGPLAN Conference Format* (acmart)¹
 - Apply the skills learned throughout the course

1) <http://www.sigplan.org/Resources/Author/>



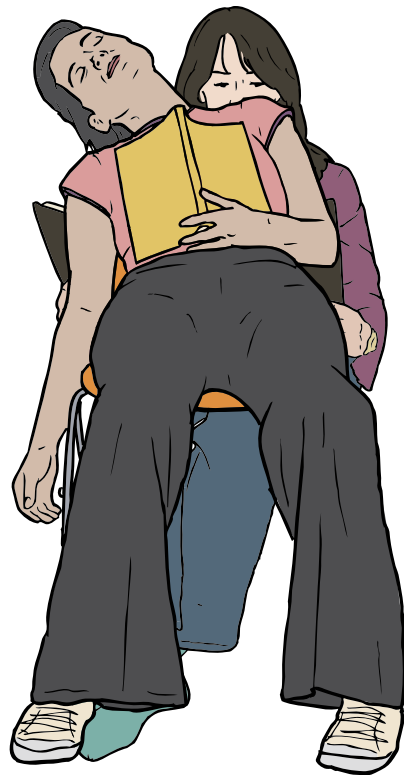
- (Preferably) create your paper with LaTeX¹
 - Use an IDE for Latex (*Linux: Kile, Windows: TexnicCenter*)
 - Install a LaTeX distribution (*Linux: texlive, Windows: miktex*)
- Use the *ACM SIGPLAN Conference Format*
 - Hints and downloads from ACM website²
 - Follow the author guidelines
- Manage your references with BibTeX³
 - Collect your references in bib file
 - Retrieve BibTeX entries from, e.g., *Google Scholar*⁴
- Toolsupport: Mendeley, Zotero, JabRef, ...

- 1) www.latex-project.org
- 2) <http://www.sigplan.org/Resources/Author/>
- 3) www.bibtex.org
- 4) scholar.google.de

- Enroll to the course via *jExam*¹
- Give scientific presentations
 - Give a 20 minutes presentation
 - Survive 10 minutes of discussion
 - Individual Presentation **17. – 18.06.2019**
- Write a research paper
 - Submission of the paper **25.06.2019 (AoE)**
 - Submission of the camera ready version **12.07.2019 (AoE)**

1) <http://jexam.inf.tu-dresden.de>

Reading



Writing



Organizing



Images from OpenClipart.org (Creative Commons by Steve Lambert)

Common Tasks

- Iterative process from idea to written paper
- Develop "*Ziel-orientierte Projektplan*" (ZOPP)
- Write an **abstract** early
- **Structure** your paper (*chapters, sections, paragraphs*)
- Write **outlines** for each chapter, section, ...



Mindmap with four arcs capturing the main idea of your paper

What *problems* does your paper address?

- Pick one main problem and add detailed subproblems

What are the corresponding *goals* of your paper?

- Align goals and subgoals to problems you address

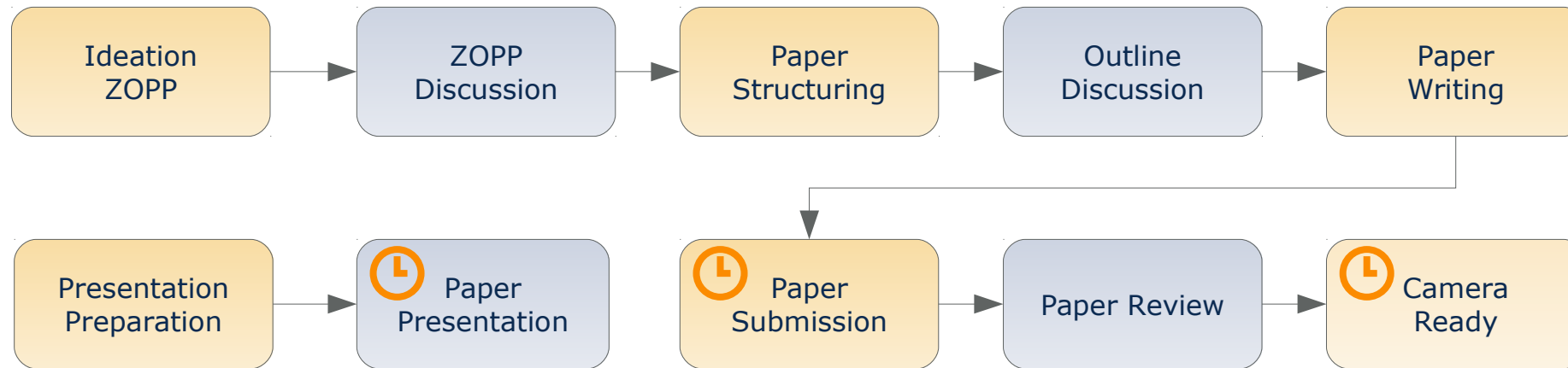
What *solution* does your paper present?

- List your solution and subsolutions aligned to goals

What are *success criteria* or how to *evaluate* your solution?

- Specify *functional* and *non-functional* requirements
- *Evaluate* whether solution achieves goals

- 1) Find a research topic for your paper.
- 2) Create a ZOPP for your paper from the *scientific point of view*.



- *Give scientific presentations* (20 min + 10 min discussion)
 - Individual presentations **17. – 18.06.2019**
- *Write a research paper* (>=5 pages ACM Style)
 - Paper submission¹ **25.06.2019 (AoE)**
 - Paper camera ready¹ **12.07.2019 (AoE)**

1) Per easychair.org

1) **LaTeX**

<http://www.latex-project.org>

2) **ACM SIGPLAN Conference Format**

<http://www.sigplan.org/Resources/Author/>

3) **BibTeX**

<http://www.bibtex.org>

4) **Google Scholar**

<https://scholar.google.de>

5) **jExam**

<http://jexam.inf.tu-dresden.de>

6) **EasyChair**

<http://easychair.org>



ASiSE Organization

