Scientific Working for the Seminar on “Prediction of Future Multimedia Downloading Behavior”
We are looking for talented students – HiWis and Theses!

Topics include e.g.:

- Monitoring of large-scale multimedia systems - underlay-aware system design
- Management overlays for multimedia systems
- Video analysis/ Computer vision to understand user perception of video
- Analysis of sensor readings from retail smart phones
- **Online Social Network aware prefetching strategies!**

- Object-oriented programming as requirement!
- Android expertise preferred

Contact us for additional info:

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Additional information: [www.dms.informatik.tu-darmstadt.de/teaching/seminar/](http://www.dms.informatik.tu-darmstadt.de/teaching/seminar/)
Assignment of topics

Our 8 topics were requested by more than 25 students!

- Any student should be assigned to a topic, if not… please contact us afterwards!
- We are sorry, that not everyone got his/her first choice!
- You should have at least one paper to start with (see website for additional information)

Please register in TUCAN for the seminar: 20-00-0648-se

If any problem exists, please contact us afterwards!

Additional information: www.dms.informatik.tu-darmstadt.de/teaching/seminar/
Agenda

- Content/structure of a seminar paper
- Referencing
- Form of a scientific paper
- How to find publications
- How to manage publications
- Various guidelines

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Content/structure of a seminar paper

Typical structure of a seminar paper

<table>
<thead>
<tr>
<th>Introduction</th>
<th>Methods</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>- What is the problem?</td>
<td>- Description of the method</td>
<td>- What is the outcome?</td>
</tr>
<tr>
<td>- Motivation</td>
<td>- How was it studied?</td>
<td>- Type of evaluation</td>
</tr>
<tr>
<td>- Sometimes assumptions and limitations defined</td>
<td>- Additional assumptions named</td>
<td>- Figures, metrics etc.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Comparison with state-of-the-art?</td>
</tr>
</tbody>
</table>

Discussion

- Tell us what you think about the different papers and their approaches – in a structured way
- Compare the approaches and their assumptions

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Referencing

Always cite your sources – No Plagiarism tolerated!

If you fail to do this, it is a false claim of authorship and therefore plagiarism. This will _not_ be tolerated in this seminar!

Good practice for citations in technical writing:

- Use direct citations only for definitions, metrics and figures lists
  
  „Crowdsourcing is a new approach in multimedia evaluations that has gained a significant interest recently. Our adaption of this technique was done in order to perform a large-scale user study at low cost.“ [Wilk2014a]

- Mainly use paraphrasing and summarization for providing content from other authors
  
  Stohr et al [Stohr2014] show that monitoring of large-scale multimedia systems …

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Form of a scientific paper

Use the IEEE template – see…

http://www.ieee.org/conferences_events/conferences/publishing/templates.html

- Follow the guidelines described in the template!

… with the tool you are comfortable with:

- Word (WYSIWYG) - More intuitive / Less support
- Latex - Less intuitive / Very mighty / Good support

- Language: English!
How to find publications… (1/2)

Scientific work always states what is new / what is the contribution

- So, it has to say what already exists: Related Work section

- The reference list shows you where to look for – In most of the cases: Google the title → one of the top 5 results is the paper

Additional information: www.dms.informatik.tu-darmstadt.de/teaching/seminar/
How to find publications… (2/2)

Databases
- Google scholar
- Access from TUD networks / VPN
  - IEEE xplore
  - ACM Digital Library
  - Springer

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How to manage publications

Various tools provide good support …

- Mendeley
- RefWorks and many more

Our recommendation – Mendeley …

- You can import publications directly from Google Scholar/ ACM / IEEE
- You can export citations to Bibtex and Word (In the correct style)
- You can manage, tag and annotate the papers
- It works on all platforms (Mac, Windows, Linux)

http://www.mendeley.com/

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How to read a paper (1/2)

How to read a paper – inspired by “How to Read a Paper”, S. Keshav, university of Waterloo, 2013

- One run is not enough
- We **suggest** 3 runs

1. Bird‘s eye view
   1. Read title, abstract, introduction
   2. Read subsection headings
   3. Glance at mathematical content and figures
   4. Read conclusion and check references

→ Are you able to answer the 5 C‘s: Category, Context, Correctness, Contributions, Clarity

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2. Taking notes – this may take several hours!
   1. Understand the figures and formulas
   2. Read carefully each section and compare it to the assumptions made!
   3. Think of questions – you want to ask the author!
3. Fully understand the paper
   1. „Virtually re-implement“ [Keshav2013] the work
   2. Try to do constructive criticism! How would you illustrate the problem and solutions?
   3. Is there a clear categorization of the paper possible
What you should do next !!!

1. You should start reading (and understanding) papers!!
2. Summarize 1-2 of those papers and send them to us for feedback (latest 02.06.14)
3. Read, Read, Read and take some notes!
4. Send us a list of papers – which you want to discuss in your work
5. Meet us to discuss the papers and continue reading!

- Don’t wait for the last day to write your paper!

**Important**: If you send us a draft version that would be graded with 4.0 – we will NOT help you to get a 1.0!

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Questions & Contact

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References
