

Lecture

Speech and Audio Signal Processing



TECHNISCHE
UNIVERSITÄT
DARMSTADT

Hints for the seminar presentation



GRADUATE SCHOOL
computational engineering

Selection of the topic

- ☐ The topic should fit in general to the topic of speech and audio signal processing.
- ☐ The topic can cover **an area not at all touched during the lecture**, e.g., in-car-communication systems.
- ☐ The topic can cover **additional aspects of a topic of the lecture**, such as other audio coding techniques than presented in the lecture.
- ☐ The topic presented should **NOT simply repeat a topic of the lecture** (neither of the lecture “Adaptive Filters”).
- ☐ Proposed main criteria for your personal selection:
 - ☐ The topic should be interesting for you.
 - ☐ You should find some publications (Journal papers, conference papers, other kind of articles) which you are able to roughly understand when having a course look.

Understanding the content

- ❑ You should use a (few) “core publication(s)” which cover(s) the topic you selected.
- ❑ Other publications may be helpful to understand the topic from another view or explain basics which are not explained in the “core” publication.
- ❑ Sometimes several aspects are described in one publication. You can focus to one:
=> The target is not to present 1to1 the “core publication” but interesting aspects.
- ❑ In case simulation results are described, you can use them by referring on the others of the publications. – Own implementation and simulations of algorithms are not necessary (but not forbidden ;-).

Setup of the presentation

- ☐ A template is available for download:
(s. moodle).
- ☐ The talk should contain
 - ☐ An overview / content slide
 - ☐ An introduction to the topic
 - ☐ The core slides to present the topic of the talk
 - ☐ A summary / conclusion
 - ☐ A list of used publications.
- ☐ In the core slides, when you explain an algorithm / concept, you should mainly focus on the assumptions, main targets for deriving an algorithms / procedure and the results. The concept should become obvious.
- ☐ Don't use many (consecutive) slides for showing formulas.
- ☐ When you show formulas, you should explain them.

Giving and attending the presentation

Presenting:

- ☐ You can use your own laptop or have the presentation on an USB stick: pdf, ppt(x).
- ☐ You should address yourself to the audience and show some motivation to explain the topics of your talk.
- ☐ In case of a combined presentation of two persons, both should present an equivalent part of the talk.
- ☐ Take a glass and not a (big) bottle in case you need to drink some water.
- ☐ Respect the time and be prepared to answer questions about the topic.

Attending:

- ☐ Two dates are offered (Dec. 2nd, 2024 and Jan. 27, 2025).
- ☐ Students are asked to be present for the complete presentation sequence at the afternoon of their presentation.

Feedback and bonus

- ☐ We offer you feedback about your presentation after each presentation slot (3-4 presentation). The feedback will be addressed personally to you.
- ☐ At the end of each of the presentation days we will tell you if you passed the seminar and if you will get the bonus.