

**Course on Multiagent Systems @ DKE:**

## **VIDEO PRESENTATIONS and Q&A SESSIONS**

### **-- Important Hints for Presenters and their Audience --**

The main purpose of seminar part is threefold: to gain experience in professionally evaluating research papers, in creating video presentations, and in professionally evaluating (video) presentations of others. Research papers can be chosen according to your interests from a pre-specified set of leading AI conferences – the only requirement is that the paper deals with “multiagency”, that is, with some aspect of cooperation or competition among multiple agents (e.g., in the context of multiagent learning, negotiation, argumentation, or swarm robotics).

The first part of the video presentation should summarize the research paper (in a neutral way). Core questions that should be answered are:

- What problem is addressed? Is it an important problem?
- What approach has been taken to address this problem? (e.g., new method is proposed, theoretical analysis, experiments, interviews, etc.)
- What (main) results and insights have been achieved?

The second part of the video presentation should provide a critical evaluation of both the research paper and the described research. This part is about identifying Examples of questions to be addressed are:

- Is the paper well structured? Is the writing style clear and understandable?
- Is the approach proposed in the paper reasonable? Why, why not and how could it be improved?
- Are the described experiments conclusive, convincing, waterproof, complete, reproducible, etc.?
- Are all claims made by the authors throughout their paper (e.g., “we solve problem  $X$ ”, “we extend method  $Y$  and ...”) backed up through theoretical and/or experimental results, that is, are all claims convincingly addressed?
- Did the authors clearly identify the assumptions they made, or are there any implicit assumptions not mentioned in the paper? Are these assumptions reasonable, are they realistic, or do they oversimplify the original problem?
- What novel applications might arise from the paper?
- What follow-up research do you recommend?
- What remained unclear to you, what did you miss (e.g., experiments with specific parameter settings, comparison to other approaches, critical discussion by the authors)?

As a presenter, you should provide answers to the above questions during your video presentation, and/or should be prepared to answer them during the online Q&A session. On the other hand, as an attendee of a Q&A session you can raise these questions unless already answered in the video presentation. Moreover, attendees can use a Q&A session to ask questions related to the content (e.g., proposed method and achieved results) of the research paper.

**Feel encouraged to refine these questions and to add additional ones!**