Seminar on Computational Neuroscience

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Who and Why?

• Introduce yourself
• Your reasons to join
• Your expectations
Computational Neuroscience Seminar 2018/19 spring

**Seminars:** Wednesdays 10:15, Ülikooli 17 - 219

**Questions:**
- Oriol Corcoll (oriol.corcoll.andreu@ut.ee)
- Raul Vicente (raulvicente@gmail.com)
- [http://neuro.cs.ut.ee](http://neuro.cs.ut.ee)
- mail list: aine.ati.cnsseminar@lists.ut.ee
The pipeline

1. Read an article
2. Explain it to others
3. Participate in discussions
4. Get feedback
5. Evaluate your audience
Papers

Each student is encouraged to present a paper of her/his own interest. Just inform us by dropping us a note if the paper is relevant to the seminar. In case you do not have any favourite paper in mind, you can refer below.

Articles of Special Interest
Here are a few papers directly related to our ongoing projects that have to be reviewed as soon as possible:

- **Theory of Minds: Understanding Behavior in Groups Through Inverse Planning**
- **Modeling the Neural Mechanisms of Core Object Recognition**
- **Mental Labour**
- **Simulating mirror neurons**
Computational Neuroscience Seminar 2018/19 spring

Timetable

You can book when to present from this sheet. You can book a time even if you didn't select or found a paper yet. The earlier you book the better you can manage your schedule.

13.02 Week 0: Kick-off seminar
Introduction, organization of the seminar, questions.

*presented by Oriol Corcoll*

slides
Select an article

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Tips

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Tips for:

- **Presenting:**
  - When possible use images instead of text.
  - Limit objects in one slide (5 object max).
  - Reference other papers and resources with footnotes. Put a reference to the main paper (Usually).
  - Practice the presentation before the due date, but do not memorize it.
  - Build your presentation about messages (ask yourself what is the message I want to give from the paper? It is also easier to memorize what you want to say (and you don't feel the need to learn it by heart).
  - Explain the main ideas. Repeat them a couple of times if needed.
  - Speak with reasonable speed and clear voice.
  - Do not read the slides unless there is large amount of unavoidable text (such as a direct quote).
  - Use some humor (But do not overdo it)

- **Making the test:**
  - The goal is to make sure all students get the main ideas of the paper.
  - Try to ask objective clear facts.
  - Do not ask about obscure technical details of the paper, the audience has not read the paper.
The pipeline

- Read an article
- Explain it to others
- Participate in discussions
- Get feedback
- Evaluate your audience
Explain it to others

• Read 3+ times to get detailed understanding:
  • What was the problem
  • Why authors wanted to solve it
  • How it was solved before
  • How did they approach it
  • What were the results
• Explain in a 1-hour presentation
The pipeline

- Read an article
- Explain it to others
- Participate in discussions
- Get feedback
- Evaluate your audience
Participate in discussions

- 15-20 min for Q&A
- All students are encouraged to ask questions
- Two students will be selected every week and will have to prepare 2-3 questions
The pipeline

READ AN ARTICLE

EXPLAIN IT TO OTHERS

PARTICIPATE IN DISCUSSIONS

GET FEEDBACK

EVALUATE YOUR AUDIENCE
Timetable

31.08: Kick-off seminar
*Introduction, organization of the seminar, questions.*

07.09: Semantic representations in the temporal pole predict false memories by M. Chadwicka et al., 2016
*presented by Ardi Tampuu*

14.09: 
*presented by*

21.09: 
*presented by*

28.09: 
*presented by*

05.10: 
*presented by*

12.10: 
*presented by*

19.10: 
*presented by*

26.10: 
*presented by*

02.11: 
*presented by*

09.11: 
*presented by*
The pipeline

- Read an article
- Explain it to others
- Participate in discussions
- Get feedback
- Evaluate your audience
Prepare a test

- Each presenter needs to prepare a test
- 4-5 questions about what you just explained
- Typically done in Google forms.
Timetable

31.08: Kick-off seminar
Introduction, organization of the seminar, questions.
feedback

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02.11:
presented by

09.11:
presented by
Points

- 50 from presentation
- 20 from attendance
- 30 from test results
- 70+ to pass

Grading criteria

This is a pass/fail course. During the course, you will collect points. To pass you need to collect 70 out of 100 points:

- Presenting an article gives you 50 points multiplied by the score from the listener feedback (example: if listener feedback is 16 out of 20, then you get $50 \times 0.8 = 40$ points)
- Attending all seminars gives 20 points (~ 1.42 per seminar)
- 30 points can be collected from the tests (answering all 4 questions correctly is worth ~2.1 points)
Questions?

READ AN ARTICLE
EXPLAIN IT TO OTHERS
PARTICIPATE IN DISCUSSIONS
GET FEEDBACK
EVALUATE YOUR AUDIENCE