

## Seminar 1 – Neurotechnology, ELA411

The seminars are designed for students to discuss topics within the course. Most questions are created without any right or wrong. Instead, you should focus on informed reflection and motivation of why you think a certain way. You might disagree with your student colleagues and that's fine, just be polite and respect the other students' opinions.

**Preparations:** Read lecture articles, Gannon (2014) and Thompson (2018). Individually submit (in Canvas) your reflections concerning the four seminar questions below. Maximum 1 page in English (font Calibri or similar, size 12).

**During the seminar:** During the first part, you will be randomly divided into smaller groups. Within your group, select one of you that will lead the seminar. The leader should make sure that everybody gets the chance to speak and that you have time to cover all questions. During the last 30 minutes, each group should present a summary of the ideas put forth by the participants.

### Seminar questions:

1. What is a Brain-Machine-Interface? Which physiological signals are included in the concept according to you?
2. Which part of a Brain-Robot interface system is the most challenging in your view? Why?
3. What do you think is the reason that an estimate of 15-30% of the population is considered to be BCI illiterate? Is this condition real in your opinion?
4. What are the ethical aspects of a brain-robot interface that you consider most important to discuss?