

# Individual assignment

You are invited to write and draw for this individual assignment. You are further invited to discuss, present, talk about this assignment in your group and in class. However, you will hand in individual assignments, with text and drawings that you have made.

## First iteration Module 1

### Content and form

Slogan: The Imitation Game, The Language Game, The Learning Game and the Moving Game

1. Search and find three definitions of AI, describe these briefly. Make references.
2. Search and find three definitions of Robotics, describe these briefly.
3. Search and find three definitions of Machine Learning, describe these briefly.
4. Write in three to five sentences the relationship between AI and Robotics as you understand this.
5. Make a text to describe your own definition of AI. Explain briefly this definition.
6. Make a drawing of an interaction with an AI - something that you imagine. Describe with some sentences your drawing.
7. Read the article: "On the Subject of Objects: Four Views on Object Perception and Tool Use" by Tarja Susi / Tom Ziemke. Write in your own words one page about the different perspectives on the human relationship with tools.
8. Select one of the perspectives from the article, and go into detail when you describe it.
9. Select one other article from module 1, and write with your own words what this article is about.
10. Select one documentary or a fictional film, book or game: describe with your own word how interaction with AI is portrayed in this work.
11. Describe what you understand by autonomy; both human autonomy and machine autonomy.
12. When was the term "AI" first coined? Please make a reference.
13. Articulate one question for the article "What we talk about when we talk about context" by Paul Dourish in the curriculum.
14. Articulate one question for any other article in the curriculum.

### Practical information

Date of delivery is Thursday 20 September before 23:59. Hard deadline.

We use the Vortex system for the deliveries. More information will be given on how to upload. PDF format is to be used.

Think of a reader when you write; the reader is a fellow student.

Language: Of your choice, English or Norwegian.

Maximum number of pages: 6

## Feedback

Feedback to another student is to be given one week after the delivery, that is Thursday 27 September before 23:59. Hard deadline.

Use the "two stars and a wish" structure for the feedback.

## Second iteration - Module 2

The second iteration of the individual assignment is to: a) incorporate feedback that you received from the first iteration b) some new assignment noted **in bold**.

### Content and form

1. Search and find three definitions of AI, describe these briefly. Make references.  
**Discuss definitions relative to discussions of AI in the course.**
2. Search and find three definitions of Robotics, describe these briefly.
3. Search and find three definitions of Machine Learning, describe these briefly.  
**Discuss definitions relative to discussions of Machine Learning in the course.**
4. Write in three to five sentences the relationship between AI and Robotics as you understand this.
5. Make a text to describe your own definition of AI. Explain briefly this definition.  
**Expand on this text to explain the relation between AI and Machine Learning.**
6. Make a drawing of an interaction with an AI - something that you imagine. Describe with some sentences your drawing.  
**Summarize key characteristics of interaction design for AI-based systems (challenges, principles, trends).**  
**Sketch a user interface illustrating one or more of these characteristics.**
7. Read the article: "On the Subject of Objects: Four Views on Object Perception and Tool Use" by Tarja Susi / Tom Ziemke. Write in your own words one page about the different perspectives on the human relationship with tools.
8. Select one of the perspectives from the article, and go into detail when you describe it.
9. Select one other article from module 1, and write with your own words what this article is about.
10. Select one documentary or a fictional film, book or game: describe with your own word how interaction with AI is portrayed in this work.
11. Describe what you understand by autonomy; both human autonomy and machine autonomy.
12. When was the term "AI" first coined? Please make a reference.

13. Articulate one question for the article "What we talk about when we talk about context" by Paul Dourish in the curriculum.
14. Articulate one question for any other article in the curriculum.
15. **Choose one of the following two tasks, a or b.**
  - a. **Read the article: "Like Having a Really Bad PA" by Luger & Sellen. Summarize in your own words key lessons learnt for interaction design with dialogue systems. Discuss the relevance of these lessons learnt for interaction with AI-based systems in general (1/2-1 page)**
  - b. **Read the article: "Using Artificial Intelligence to Augment Human Intelligence" by Carter & Nielsen. Summarize in your own words the articles discussion of different views on computers, and on how AI may augment human intelligence (1/2-1 page).**

## **Practical information**

Date of delivery for the second iteration of the individual assignment is Thursday 18 October before 23:59.

Please use the same file name as for the first delivery, with version 2 at the end.

## **Feedback**

Feedback to is to be given one week after the delivery, that is Thursday 25 October before 23:59.

Please select the delivery "two down the list" to give feedback to. This will ensure that you get to read and give feedback to a new delivery.

We will use the well known "two star and a wish" structure for the feedback again.

## **Third iteration - Module 3**

The third iteration of the individual assignment is to: a) incorporate feedback that you received from the first iteration b) one new assignment - the last question (number 16).

## **Content and form**

1. Search and find three definitions of AI, describe these briefly. Make references. Discuss definitions relative to discussions of AI in the course.
2. Search and find three definitions of Robotics, describe these briefly.
3. Search and find three definitions of Machine Learning, describe these briefly. Discuss definitions relative to discussions of Machine Learning in the course.

4. Write in three to five sentences the relationship between AI and Robotics as you understand this.
5. Make a text to describe your own definition of AI. Explain briefly this definition. Expand on this text to explain the relation between AI and Machine Learning.
6. Make a drawing of an interaction with an AI - something that you imagine. Describe with some sentences your drawing. Summarize key characteristics of interaction design for AI-based systems (challenges, principles, trends). Sketch a user interface illustrating one or more of these characteristics.
7. Read the article: "On the Subject of Objects: Four Views on Object Perception and Tool Use" by Tarja Susi / Tom Ziemke. Write in your own words one page about the different perspectives on the human relationship with tools.
8. Select one of the perspectives from the article, and go into detail when you describe it.
9. Select one other article from module 1, and write with your own words what this article is about.
10. Select one documentary or a fictional film, book or game: describe with your own word how interaction with AI is portrayed in this work.
11. Describe what you understand by autonomy; both human autonomy and machine autonomy.
12. When was the term "AI" first coined? Please make a reference.
13. Articulate one question for the article "What we talk about when we talk about context" by Paul Dourish in the curriculum.
14. Articulate one question for any other article in the curriculum.
15. Choose one of the following two tasks, a or b.
  - a. Read the article: "Like Having a Really Bad PA" by Luger & Sellen. Summarize in your own words key lessons learnt for interaction design with dialogue systems. Discuss the relevance of these lessons learnt for interaction with AI-based systems in general (1/2-1 page)
  - b. Read the article: "Using Artificial Intelligence to Augment Human Intelligence" by Carter & Nielsen. Summarize in your own words the articles discussion of different views on computers, and on how AI may augment human intelligence (1/2-1 page).
16. Describe with your own words what you understand by different levels of automation? What are the advantages/disadvantages related to higher/lower levels of automation? (1/2 – 1 page).

## **Practical information**

Date of delivery for the second iteration of the individual assignment is Thursday 15 November before 23:59.

Please use the same file name as for the first delivery, with version 3 at the end.

## **Feedback**

Feedback to is to be given one week after the delivery, that is Thursday 22 November before 23:59.

Please select the delivery "three down the list" to give feedback to. This will ensure that you get to read and give feedback to a new delivery.

We will use the well known "two star and a wish" structure for the feedback again.