

UNIVERSITY OF TWENTE.



**MODULE 6 2023 - 2024
TECHNICAL COMPUTER SCIENCE (TCS) /
BUSINESS & IT (BIT)**

RANDY KLAASSEN (MODULE COORDINATOR)

INTELLIGENT INTERACTION DESIGN



<https://youtu.be/nwPtcqcqz00?si=9II8hBujr-7O8PXP>



TODAY

- 8.45 Kick-off Module 6 – Randy Klaassen
- 9.45 Kick-off AI&CS lecture – Lorenzo Gatti
- 10.45 1st lecture HCI Design & Evaluation – Randy Klaassen
- ±11.45 Study tour promotion - Lynn van der Horst
- ±12:15 Tips & Tricks - Bibian Rosink, Joyce van Baaren



Computer
Science

Human
Media
Interaction

Virtual
coaches

Health

Well-being

Foundations
of Interaction Tech



Bel
SL

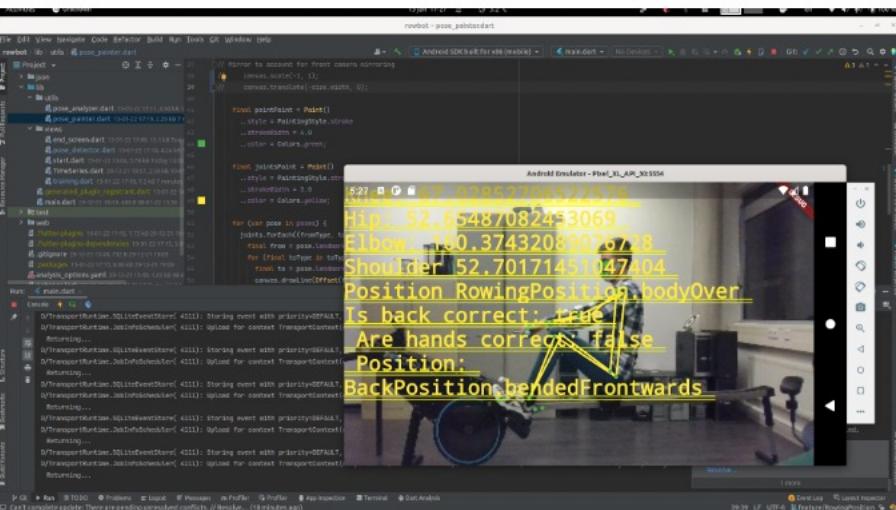
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THE MODULE IS FAMOUS OF ...



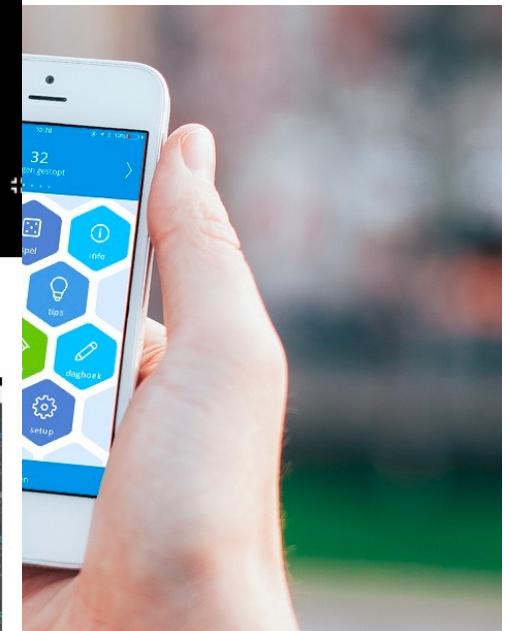
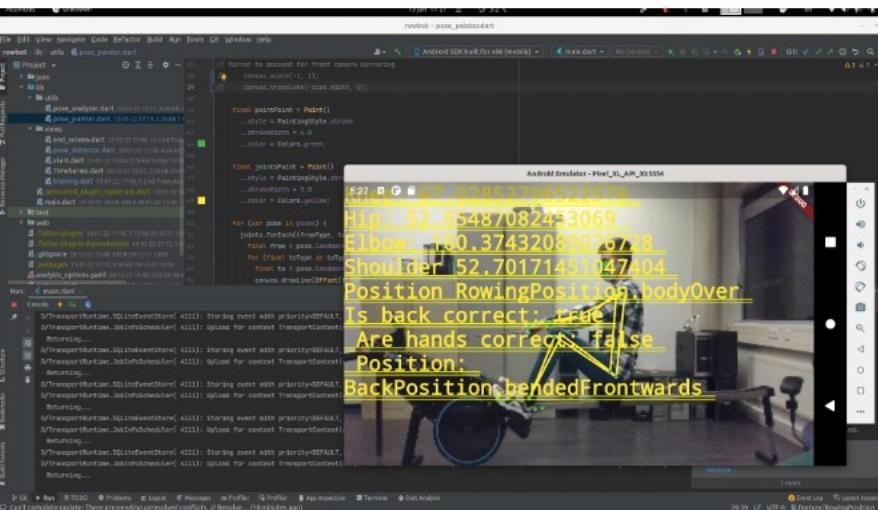
Figure 11: Training session recording



THE MODULE IS FAMOUS OF ...



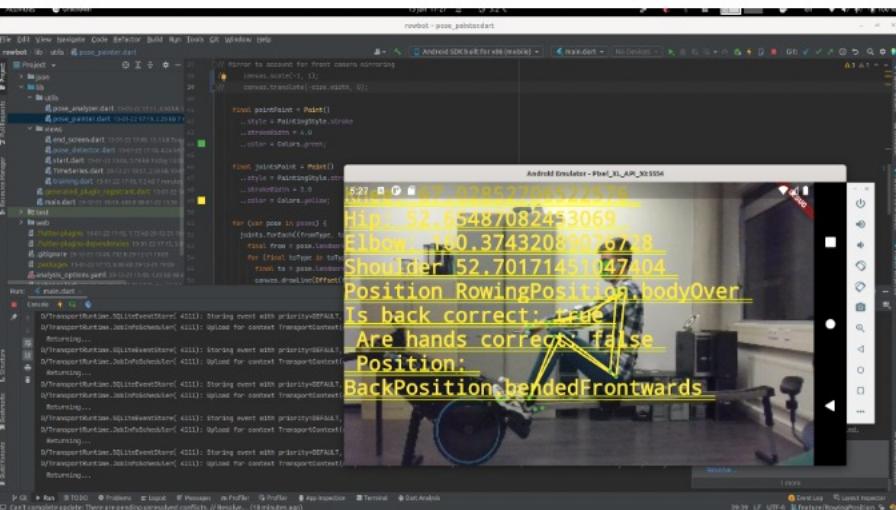
Figure 11: Training session recording

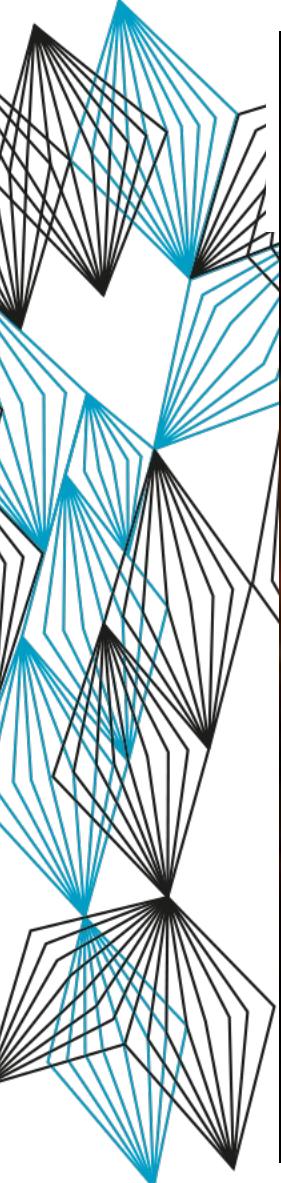


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Figure 11: Training session recording



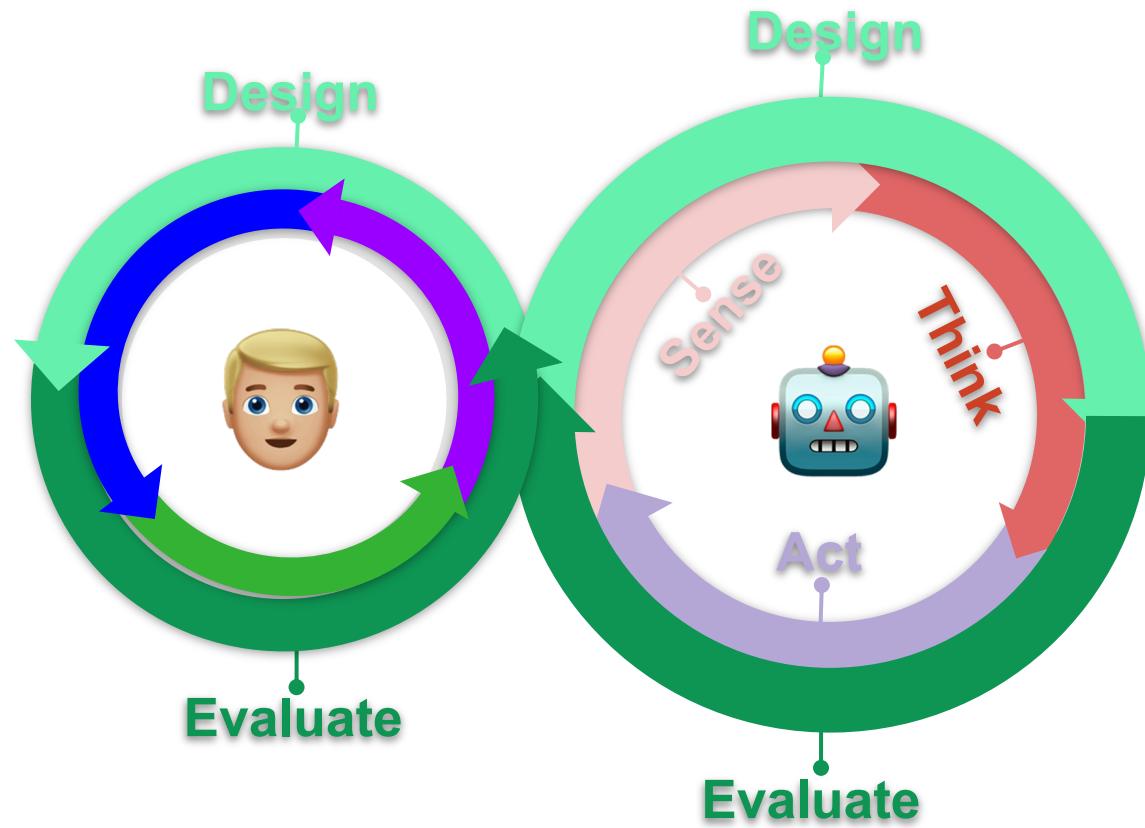


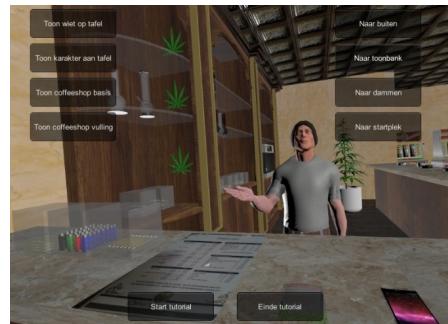
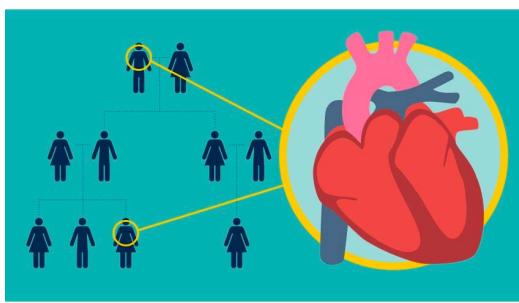
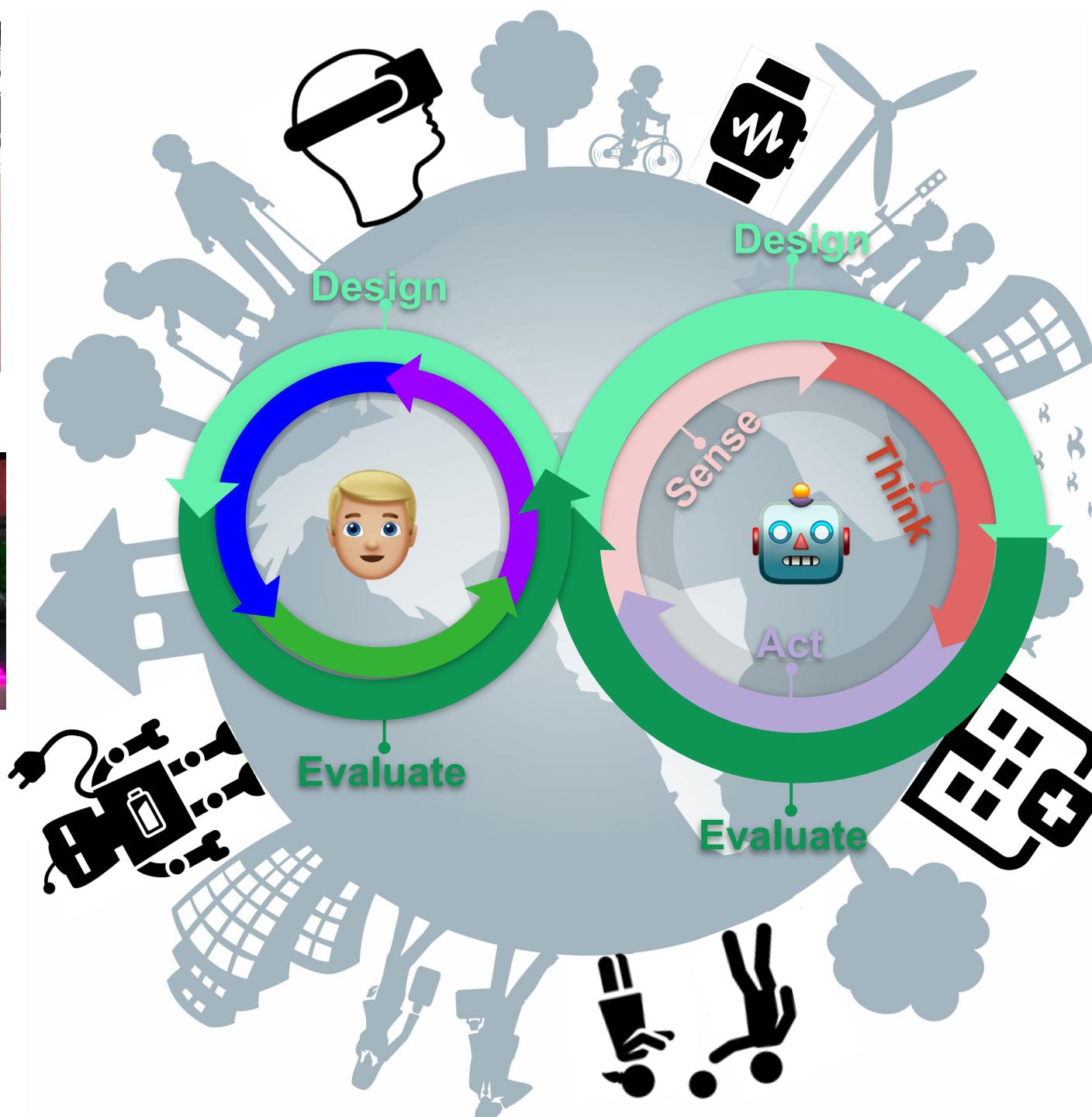
<https://youtu.be/4kj8iGbAAyY?si=tQSBvnArVrBLQkGT>



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Intelligent Interaction Design



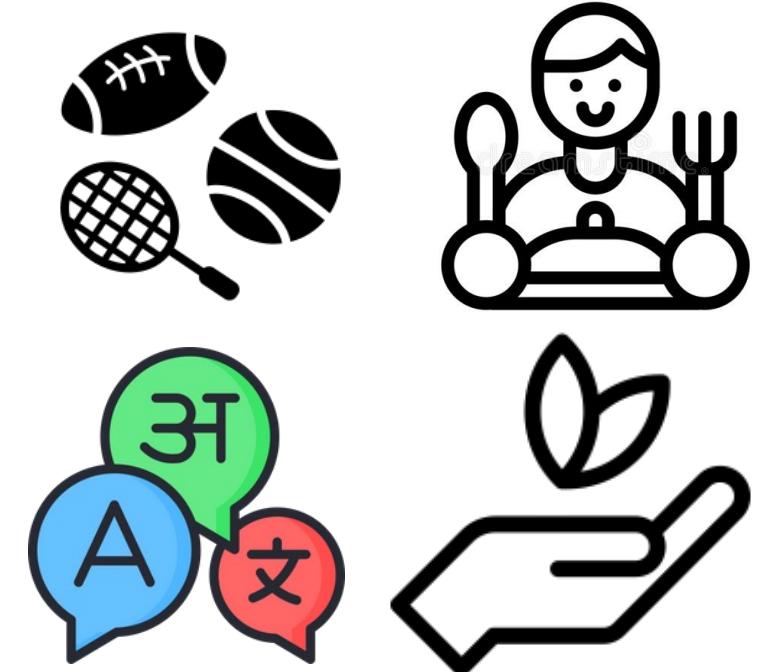


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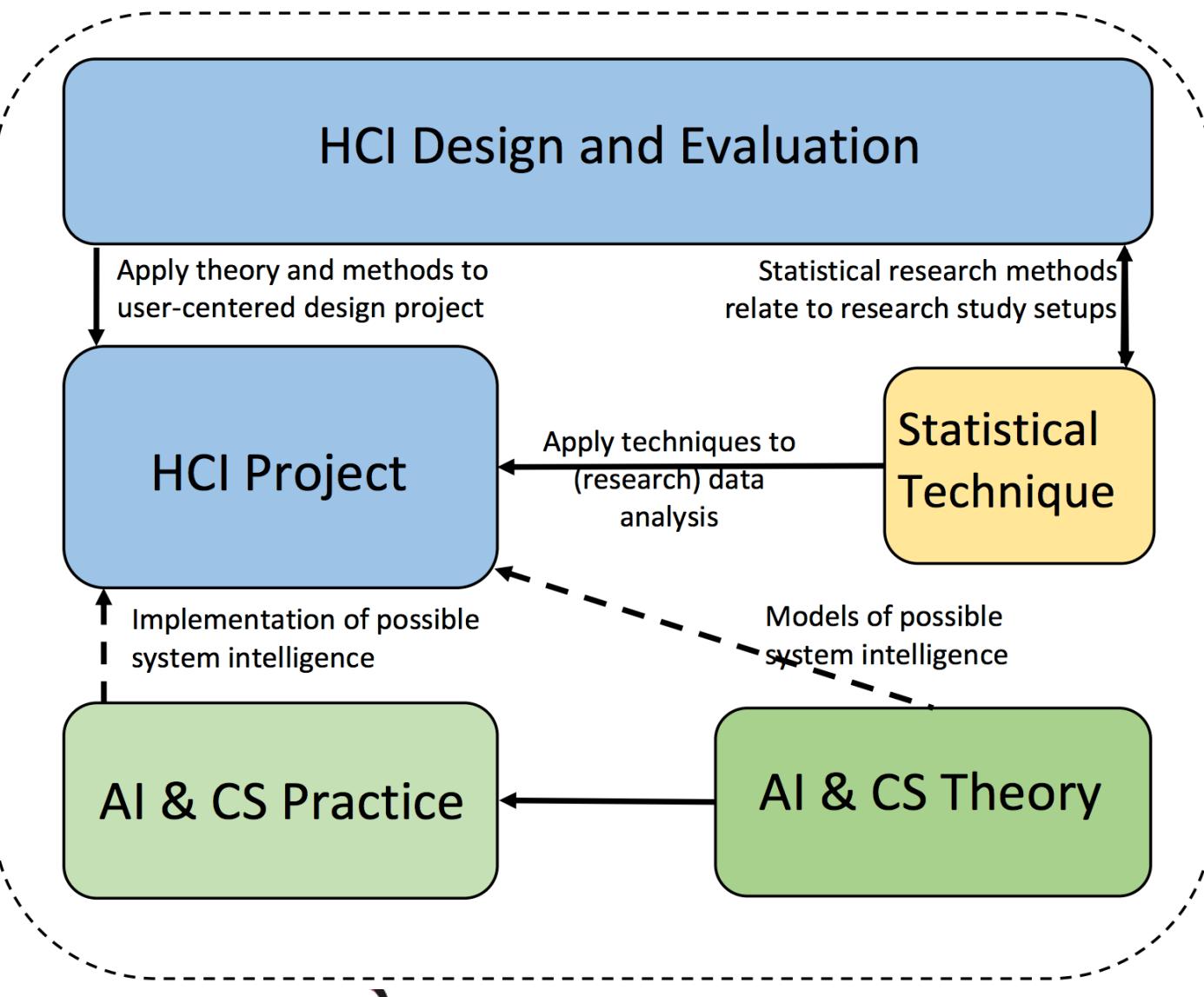
INTELLIGENT INTERACTION DESIGN

XXXXX

- This year: projects are about Intelligent Interactions in the domain of
 - 1. Domain: Culture:
 - 1. Provide information to visitors of a museum;
 - 2. Skill training for music instruments;
 - 3. Communication between people with different languages.
 - 2. Domain: Health and wellbeing:
 - 1. Skill training for sports;
 - 2. Vegetable intake at the dining table,
 - 3. Body posture in work/school environments.
 - 3. Domain: Sustainability:
 - 1. Food waste in a home settings;
 - 2. Energy consumption in school/office settings;
 - 3. Bike usage.



MODULE UNITS & PARTS



MODULE UNITS & PARTS

Module units and parts	Approximate study load
AI & CS (theory)	3 EC
AI & CS (practice)	3 EC
HCI Design & Evaluation (theory)	2 EC
HCI Design & Evaluation Project (practice)	4 EC
Statistical Techniques (theory and practice)	3 EC
Total EC	15 EC

PASSING THE MODULE

THEORY

- HCI Design & Evaluation, Artificial Intelligence theory, Statistical Techniques: **≥ 5.5**

PRACTICE

- HCI Project: **≥ 5.5**
- Artificial Intelligence practice: **5x PASS**

REDOING THE MODULE?

- Complete units need to be retaken
- Alternative assignment for the HCI Project
(let us know today!)
- Redo AI&CS? Then you can resubmit your assignments from last year, provided that:
 - you indicate it's a resubmission (otherwise it will be flagged for plagiarism);
 - you make sure any changes from last year are integrated in your assignment;
 - you are in a group of your own (otherwise the other student is freeloading).
 - Notice that if the resubmitted assignment is graded as FAIL, it is not possible to argue that last year it was a PASS: you will have to repair it like any other student.

TESTS AND DEADLINES

- See **module manual** for general information
- See **module on Canvas** for more details on assessment in each part
- A list of all deadlines per week for the entire module: Canvas Syllabus (will get completed later this week)

Course summary:

Date	Details
Fri, 17 Nov 2023	[HCI] Concept development report
Fri, 24 Nov 2023	[HCI] Target user report
Mon, 27 Nov 2023	[AI&CS] Practical Assignment Week 2 - Prolog
Fri, 1 Dec 2023	[HCI] Interview report
Mon, 4 Dec 2023	[AI&CS] Practical Assignment Week 3 - Probabilistic Reasoning
Fri, 8 Dec 2023	[HCI] Reflection report Interviews - Alternative Assignment only
Mon, 11 Dec 2023	[AI&CS] Practical Assignment Week 4 - Decision Trees
Fri, 15 Dec 2023	[HCI] HCI Design & Evaluation - Exam part I
Mon, 18 Dec 2023	[HCI] Lo-Fi prototype report
Fri, 22 Dec 2023	[AI&CS] Practical Assignment Week 5
Tue, 9 Jan 2024	[HCI] Reflection report LoFi test - Alternative Assignment only
Fri, 12 Jan 2024	[AI&CS] Practical Assignment Week 6 - Machine Learning for Security (ML4sec)
Sun, 14 Jan 2024	[AI&CS] Exam
Fri, 19 Jan 2024	[HCI] Hi-Fi prototype report
Sun, 21 Jan 2024	[HCI] Controlled Experiment report
Wed, 24 Jan 2024	[HCI] HCI Design & Evaluation - Exam part II
Fri, 26 Jan 2024	[HCI] Final project report
Tue, 30 Jan 2024	[AI&CS] Repair practical assignment week 2
Wed, 31 Jan 2024	[AI&CS] Repair practical assignment week 3
Sun, 4 Feb 2024	[AI&CS] Repair practical assignment week 4
	[AI&CS] Repair practical assignment week 5
	[AI&CS] Repair practical assignment week 6
	[HCI] Reflection report HiFi test - Alternative Assignment only
	[AI&CS] Resit
	[HCI] HCI Design & Evaluation - resit Exam part I
	[HCI] HCI Design & Evaluation - resit Exam part II
	[HCI] (optional) resubmission Final project report
	AI&CS - Practice Test

TIMELINE

	Mon 13 Nov	Tue 14 Nov	Wed 15 Nov	Thu 16 Nov	Fri 17 Nov	
8:00						
9:00	08:45 - 09:30 Module Kick-off	08:45 - 10:30 Artificial Intelligence & Cyber Security Theory 202200145 Lecture Recorded MB van Riemsdijk <i>Student set(s): AM/TCS MOD06 Group 01</i>	08:45 - 12:30 HCI Design and Evaluation Project 202200146 Tutorial L Gatti R Klaassen RA 2502	08:45 - 12:30 HCI Design and Evaluation Project 202200146 Tutorial L Gatti R Klaassen RA 2504 <i>Student set(s): TCS/BIT MOD06 Group 05</i>	08:45 - 10:30 Statistical techniques for TCS/BIT 202001033 Lectorial F Kula J Chen	
10:00	09:45 - 10:30 Artificial Intelligence & Cyber Security Theory 202200145					
11:00	10:45 - 12:30 HCI Design and Evaluation Theory 202200146 Lecture R Klaassen WA 1	10:45 - 12:30 Statistical techniques for TCS/BIT 202001033 Lectorial F Kula J Chen		10:45 - 12:30 Artificial Intelligence & Cyber Security Theory 202200145 Tutorial MB van Riemsdijk CLT100	10:45 - 12:30 Artificial Intelligence & Cyber Security Theory 202200145 Tutorial MB van Riemsdijk CLT100	
12:00						
13:00						
14:00	13:45 - 17:30 HCI Design and Evaluation Project 202200146 Tutorial L Gatti R Klaassen RA 2502 <i>Student set(s): AM/TCS MOD06 Group 01 (double degree), ITECH PM 1B Group 01, TCS/BIT MOD06</i>	13:45 - 17:30 HCI Design and Evaluation Project 202200146 Tutorial L Gatti R Klaassen RA 2504 <i>Student set(s): TCS/BIT MOD06 Group 02</i>	13:45 - 17:30 HCI Design and Evaluation Project 202200146 Tutorial L Gatti R Klaassen RA 2502 <i>Student set(s): TCS/BIT MOD06 Group 03</i>	13:45 - 17:30 HCI Design and Evaluation Project 202200146 Tutorial L Gatti R Klaassen RA 2504 <i>Student set(s): TCS/BIT MOD06 Group 04</i>	13:45 - 15:30 Statistical techniques for TCS/BIT 202001033 Q&A F Kula J Chen	
15:00						
16:00						
17:00						
18:00						

TIMELINE

	Wk1	Wk2	Wk 3	Wk 4	Wk 5	Wk 6	Wk 7	Wk 8	Wk 9	Wk 10
HCI Project	submit	submit	submit		submit		submit		- Report - Oral reflection	- Oral reflection - Repair
HCI Design & Evaluation					TEST part I			TEST part II		RESIT Part I and/or part II
Statistical Techniques		HWA1	HWA2	HWA3	HWA4	TEST				RESIT
AI & CS Theory							TEST			RESIT
AI & CS Practice		submit	submit	submit	submit	submit			REPAIR	

Combined demo day 02-02-2024



LECTURES, LECTORIALS & TUTORIALS

Component	activities
HCI Theory	On Campus lectures Exams on Campus Oral reflections on Campus
HCI Project	Tutorials on Campus
AI&CS Theory	Intro lecture live Pre-recorded lectures On Campus exam
AI&CS Practice	On Campus tutorials
Statistical Techniques	On Campus Lectorials On Campus Q&A's On Campus exam

ROOSTER, PLANNING, SELF-STUDY

- Did you find the timetable?
- Project groups for the HCI project should be formed today
- Part of schedule dependent on HCI project group number, which might be modified in first week
- Planning individual self study is your own responsibility!!
- Self study is not in the online roster
- Multiple deadlines in most weeks, so:

PLAN AHEAD

TEACHING STAFF



[HCI] HCI Design and Evaluation



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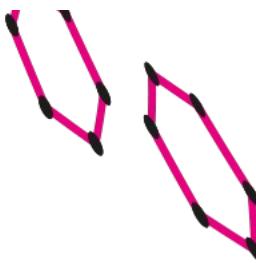
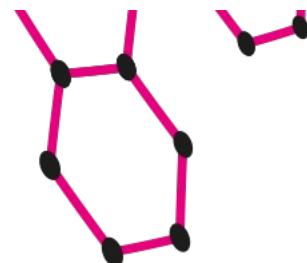


Daniel Davison

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+ teaching assistants



TEACHING STAFF



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TEACHING STAFF

[Stat] Statistical Techniques



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Juntong Chen

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TEACHING STAFF

Study advisors



Rianne de Jong
(TCS)



Iris van Duiven
- Meijlof
(TCS)



Bibian Rosink
(BIT)

TEACHING STAFF

Module coordination



Randy Klaassen

FRAUD REMINDER

- Discussing and working together is fine, BUT:
 - Using (parts of) other people's work without attribution = plagiarism
 - Using verbatim citations without attribution = plagiarism
 - Citing literature that you have not read = plagiarism
 - Submitting (parts of) your own old work without reference to the original = self-plagiarism
 - 'Free-riding' = plagiarism
 - Use of generative AI-software without explaining and referencing – misconduct (see manuals and UT regulation)

WHO TO CONTACT?

- Module coordinator: r.klaassen@utwente.nl
 - About organisation of the module
 - About inability to attend exams or other issues
 - If you do only a part of the module (but we don't know yet)
- Study advisers
 - About illness, personal circumstances, problems
- Teaching staff
 - About anything related to the subject they teach

EVALUATION AND FEEDBACK

- Help us to further improve the module.
- Student feedback panels (CEEP, TBA)
- Inter-Actief Education Officer
- Short surveys during module
- Standard SEQ survey at the end
 - → Also, please fill in SEQ for previous module
- Or contact us directly in class
- Main changes this year: see manual

IMPROVEMENTS

- HCI Design & Evaluation:
 - Improved assignments in .
- AI&CS:
 - 1 extra tutorial per week, more exercises
- Statistical Techniques:
 - Any statistical tool is allowed for assignment

QUESTIONS?

Read the Module Manual

Read the Course Manuals

Randy Klaassen

r.klaassen@utwente.nl

Citadel H231

(Monday-Friday by appointment)

INTELLIGENT INTERACTION DESIGN (202001031)

MODULE MANUAL 2023 - 2024

MODULE 6
TECHNICAL COMPUTER SCIENCE / BUSINESS & IT
MODULE COORDINATOR:
RANDY KLAASSEN

NOVEMBER 2023
VERSION 1.0

UNIVERSITY OF TWENTE.



THANK YOU!

Have fun in the module, and also enjoy this time of the year!



And did you already complete the SEQ of Module 5!?

