2025-2026-2 Human-Machine Interaction

5-minute Sharing Assignment

HMI Problems in Everyday Systems

Objective

This sharing trains you to:

- Observe Human–Machine Interaction problems in daily life
- Develop awareness of hidden interaction failures
- Practice concise technical communication
- Connect theory (human factors, control loop, automation, feedback) to real-world systems

This is an observation and analysis task, not a redesign project.

Group Formation

- Group size: **2 students**
- Each group shall introduce one real intelligent system from daily life and identify one specific HMI issue associated with it.
    - The system must involve some level of intelligence, automation, sensing, or control logic
- Fill in your group information by 4th March, 2026 (Wednesday) https://docs.qq.com/sheet/DTmVNY3dmWmhOVHFn

Topic Scope

You can choose any system which:

- Involve human interaction
- Include feedback and control
- Show at least one identifiable HMI issue

Example:

- Smart driving assistance in cars
- Self-checkout machine
- Smart home voice assistant
- Elevator control system
- Smart wearable health device
- Delivery robot
- Parking assistance system
- Online recommendation system
- Face recognition unlock
- Industrial machine interface (if accessible)

Presentation

Each group has **5 minutes total**.

Your presentation must include:

- System Introduction
- Identified HMI Problem (ONLY ONE)
- Why This Is an HMI Problem

Presentation Rules

- Maximum 10 + x slides
    - 10 slides: your content
    - x slides : mention how did you use LLM in this sharing, including
        - where LLMs were used
        - what prompts were used (summary form)
        - how outputs were verified or modified
- Maximum 5 minutes, including the setup
- No live demo required
- Both members must speak
- Clear diagrams preferred over long text

Evaluation Criteria

- Understand the system 50%
- Understand the HMI issue 40%
- Presentation clarity and teamwork 10%

Presentation Arrangement

- **Nine** lectures, marked as *, are selected for student sharing.
- For each selected lecture, **six** presentation slots are reserved.
- During the Wednesday lecture, the groups that will present next week will be randomly selected from the ready list.
- If the ready list contains fewer groups than the required number of presentation slots, the remaining groups will be randomly selected from the entire class.

- Any group can join the ready list before the luck draw. Bonus points will be given to groups that join the ready list. Additional points will be awarded based on how early the group joins: W1: +5, W2: +4, W3: +3, W4: +2, W5: +1, and W6: +0.

	S	M	T	W	T	F	S
March W1	1	2 **Chan**	3 **Chan**	4 **Chan**	5	6	7
W2	8	9 **Chan**	10 **Chan**	11 **Chan**	12	13	14
W3	15	16 **Chan**	17 **Chan***	18 **Chan***	19	20	21
W4	22	23 **Chan***	24 **Chan***	25 **Chan***	26	27	28
April W5	29	30 **Xie**	31 **Xie**	1 **Xie**	2	3	4
W6	5	6 **Xie**	7 **Chan***	8 **Chan***	9	10	11
W7	12	13 **Chan***	14 **Chan***	15 **Xie**	16	17	18
W8	19	20	21	22	23	24	25
May W9	26	27	28	29	30	1	2
W10	3	4	5	6	7	8	9
W11	10	11 **Chan#**	12 **Chan#**	13 **Chan#**	14	15	16