

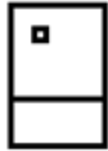


**KAIST FALL 2025**  
**CS473: INTRO TO SOCIAL COMPUTING**  
**SOCIAL.CSTLAB.ORG**

**Class 01:**  
**Introduction & Course Overview**

**2025.09.02**  
**Joseph Seering**

# COMPUTER SCIENCE IS ABOUT MAKING TECHNOLOGY THAT IS...



Fast

Secure

Intelligent

Power-efficient

Error-free

Maintainable

Cheap

Small

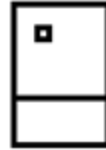
Reliable

Standard-compliant

Modular

# HUMAN-COMPUTER INTERACTION IS ABOUT MAKING TECHNOLOGY THAT IS...

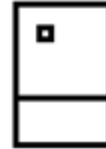
useful  
usable



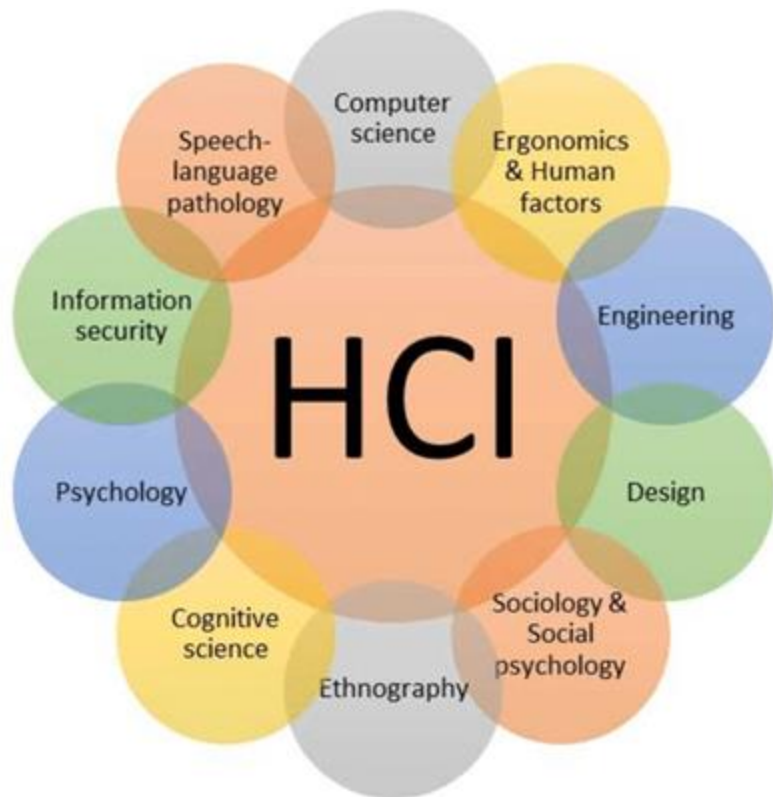
# HCI ACCOMPLISHES THE GOAL BY DESIGNING AND BUILDING BETTER...

CS374  
Intro to HCI

interaction



# INFLUENCES IN HCI



ACM CHI 2026

Creant el demà junts • Barcelona, 13–17 April, 2026

# SPECIALTIES IN HCI?

- Interaction Design/Service Design
- Ubiquitous computing
- Accessibility
- Privacy/Security
- Human-AI Interaction
- Social Computing

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**CS473**  
**Intro to**  
**Social Computing**

# HOW HUMANS WORK





# HOW HUMANS WORK @ SCALE



Communication, Collaboration, Group Dynamics, Social Interaction



# LEARNING OBJECTIVE

*“You’ll learn the skills to design useful and usable systems that support and augment social interaction at scale.”*

# WHAT IS SOCIAL COMPUTING?

- Computer systems that support and augment social interaction
  - Communication
  - Discussion
  - Peer Production
  - Innovation
  - Decision making
  - Information sharing
  - Collaboration
- Study and design of such systems

# CHALLENGES IN SOCIAL COMPUTING

- How to build new systems that enable new forms of social interaction?
- How to support large groups of people to achieve collective, complex, large-scale goals?
- How to analyze and understand emergent behaviors from technical interventions?

# MODERN SOCIAL COMPUTING ISSUES

- Misinformation / Fake News
- Filter bubbles / Echo chamber
- Moderation / Harassment
- Interaction with virtual agents
- AI-mediated communication
- ...

**Course Staff: Professor, TAs**

# WHO AM I? PROFESSOR JOSEPH SEERING

- 3rd year at KAIST, Assistant Professor/조교수
- Research Interests: HCI, Social Computing, Trust and Safety
- [cstlab.org](http://cstlab.org) [joseph.seering.org](http://joseph.seering.org)
- Postdoc, Stanford University
- Ph.D. + M.S., Carnegie Mellon University
- B.A., Harvard University



## Lab Focus

# Trust & Safety

Helping users learn, work, and play together  
more **positively** and **productively** in online spaces

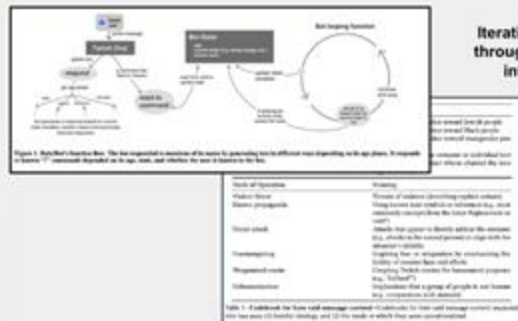
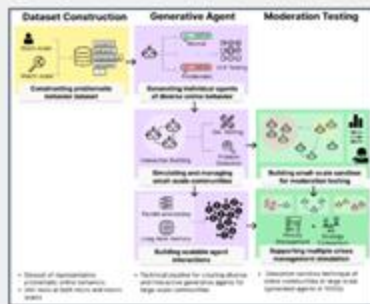


## Studying Abuses of AI on Social Platforms

### Identifying firm-specific factors



## Multi-agent architecture



Iterating on agents  
through community  
interactions

# COURSEWARE

- Course website
  - [social.cstlab.org](http://social.cstlab.org)
  - All course updates & assignments will be posted here.
- Campuswire: Reading responses and discussion/questions
  - Will mostly replace email, but if you have a private matter to discuss you can email [cs473kaist@googlegroups.com](mailto:cs473kaist@googlegroups.com)

# IN THIS CLASS, YOU WILL

- READ, CRITIQUE
- ANALYZE, REFLECT
- DESIGN, BUILD, TEST
- DISCUSS, SHARE

# IN THIS CLASS, YOU WILL

- READ, CRITIQUE
  - Reading Response (for most weeks)
- ANALYZE, REFLECT
  - Exam (end of semester)
- DESIGN, BUILD, TEST
  - Design Project (throughout the semester)
- DISCUSS, SHARE
  - In-class, asynchronous discussion (anytime)

# IN THIS CLASS, YOU WILL

- READ, CRITIQUE 10%
  - Reading Response (for most classes)
- ANALYZE, REFLECT 30%
  - Exam (end of semester)
- DESIGN, BUILD, TEST 40%
  - Design Project (throughout the semester)
- DISCUSS, SHARE 20%
  - In-class, asynchronous discussion (anytime)

# ATTENDANCE AND PARTICIPATION

- In-class
  - Attend class. We will track this starting next week.
    - (3 free absences before your grade is penalized)
  - Complete the activities during class.
  - Please try to speak! Don't worry about quality of English.
- In design studios
  - Give feedback on other teams' designs.
  - We will track how much you participate in studios
    - Learning to give good feedback is an essential life skill!

# READING RESPONSE

- You'll read or watch one pre-class material per week & submit questions.
  - Note: You will not get credit for duplicate questions!
- Some of these questions will be used as part of the final exam, and you'll receive extra credit if your questions are used.

# FINAL EXAM

- Multiple choice + short answer questions
- Some will come from you, some will come from previous years' students (including Stanford students)
- **ALL** potential questions will be available by 1 week before the exam.



# DESIGN PROJECT

- Design, build, and test your own social computing system.
  - Real users should be able to get actual value out of your system by the end of the semester!
- **SCOPE: Promote people's social interactions**
  - No monetary incentives involved
- Team of 3-4
- Unlike CS374, it's okay if other KAIST students are your target population, but I'll explain some restrictions in next class.

# COURSE STRUCTURE

## Design Project Structure:

### 0. (Team-finding)

1. Ideation
2. Pitch
3. Low-fi Prototype
4. High-fi Prototype
5. Final Presentation

## Lecture Structure:

1. Starting a social platform
2. Theorizing user interactions
3. How users collaborate
4. User conflict
5. Evaluating Value
6. Measuring and Monitoring
7. Emergent problems
8. Managing a social platform
9. Human-AI Interaction
10. Social Simulations

# TAKEAWAYS FROM TODAY

- This course is about principles, techniques, & methods for supporting social interaction with computing.
- We will talk a lot about what makes social applications successful.

# BUT... CAUTION:

- This is an upper-level class in the School of Computing.
- In this class, you will be required to develop a (fairly basic, but functional) social application.
- You will also be required to do (some) user research, getting feedback from users about your application.
- The majority of your effort in this class will be in group work. The individual components are relatively small in comparison.

# TAKEAWAYS FROM TODAY

- I want you to succeed and learn.
  - It's not really about evaluating where you are at the end of the course.
  - But you have to do your part: active learning.
  - You have to speak up, otherwise you won't learn.
- Please ask interesting questions!

# TODO ITEMS FOR YOU

- Visit the course website
  - [social.cstlab.org](https://social.cstlab.org)
  - Course updates and materials
- Complete the course sign-up form NOW
  - You're not officially registered unless you fill this out. Due 9/5 (Fri).
- Visit Campuswire (link on website)
  - All announcements, Q&A, & discussions
- Start thinking about your project team. You'll need to form teams (3-4 people) by late next week!