

# Human Computer Interaction

## OVERVIEW

By: Nguyễn Công Hoan



GV Thông báo



SV Thảo luận

#### 4 September - 10 September



DCMH-2016-1-Giao tiếp người máy - SE215 (Updated 08-2017) 202.3KB



TedBooks - Nhìn Mặt Mà Bắt Hình Dạng

**Hãy học HTML5 & CSS gấp!!!**



HCI\_Final Project List 2017 20.1KB



HCI\_Project Report Template 2017 19.5KB



HCI\_Book 2017 59.9KB



Link down ebook(LOGIN by Email trường)



HCI\_Case Study 2017 58.1KB

# Assessment

## 1. Final exam: **50%**

1. Absolutely theory: 30%
2. Prototype design: 70%  
(+ final report: prototype of final project – HTML/CSS)

## 2. On class (practice): **50%**

1. Translate e-book: **25%**  
(report progress whenever lecturer request)
1. Case study: **30%**  
(discuss on class)
2. Briefly report for prototype of final project: **45%**  
(on seminar schedule)

You must sign two tables:

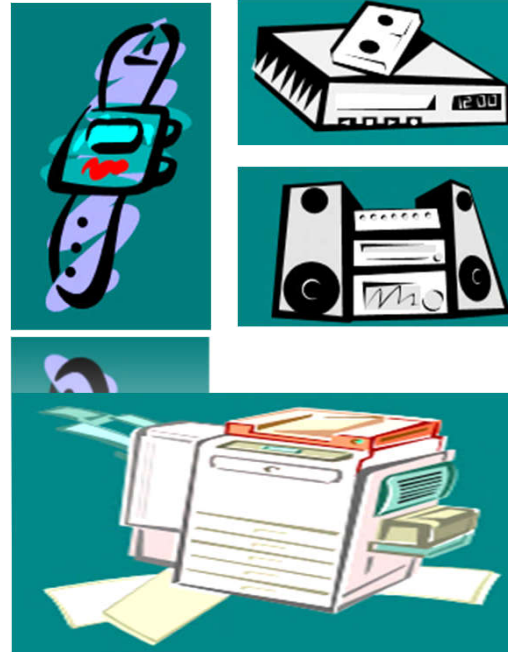
1. Danh sách dự thi  
LT (vào ngày thi  
LT)
2. Danh sách thi  
TH(vào ngày thi  
LT)

# Lecturer Info

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- FB: <https://www.facebook.com/hoan.nguyen.khan>

# Daily Challenges

- How many of you can use all the functionality in your
  - VCR
  - Digital watch
  - Copy machine
  - Stereo system
  - Plumbing fixtures



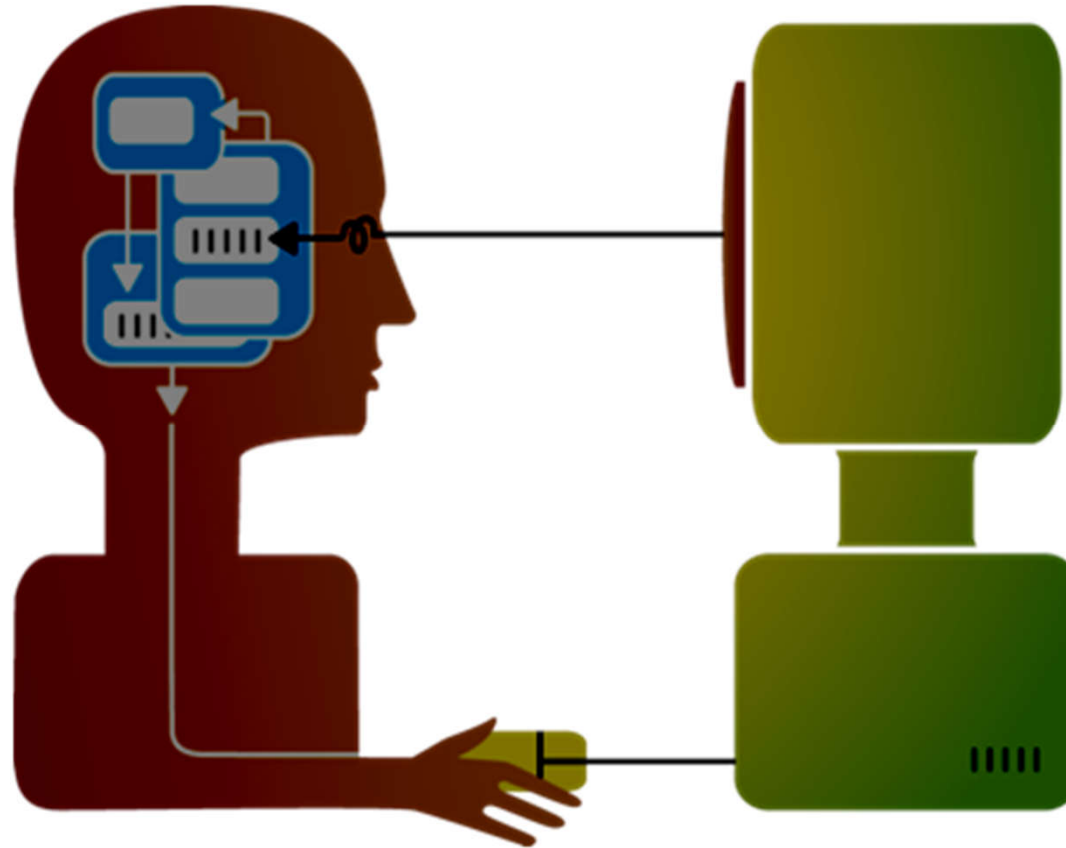
# Objective

- Study of interaction between human and computer to design human-centered skills, so that there are principles and methods to create excellent interfaces with any technology

# Hottest Topic

- It is the hottest topic among it proffesionals of today
- Serious research in this area has just begun which promises of fundamentally changing computing
- Spectacular growth of world wide web is the direct result of HCI research
- HCI would play a leading role in the creation of tommorow's exciting new user interface software

# What is Human Computer Interaction (HCI)?





# Definition

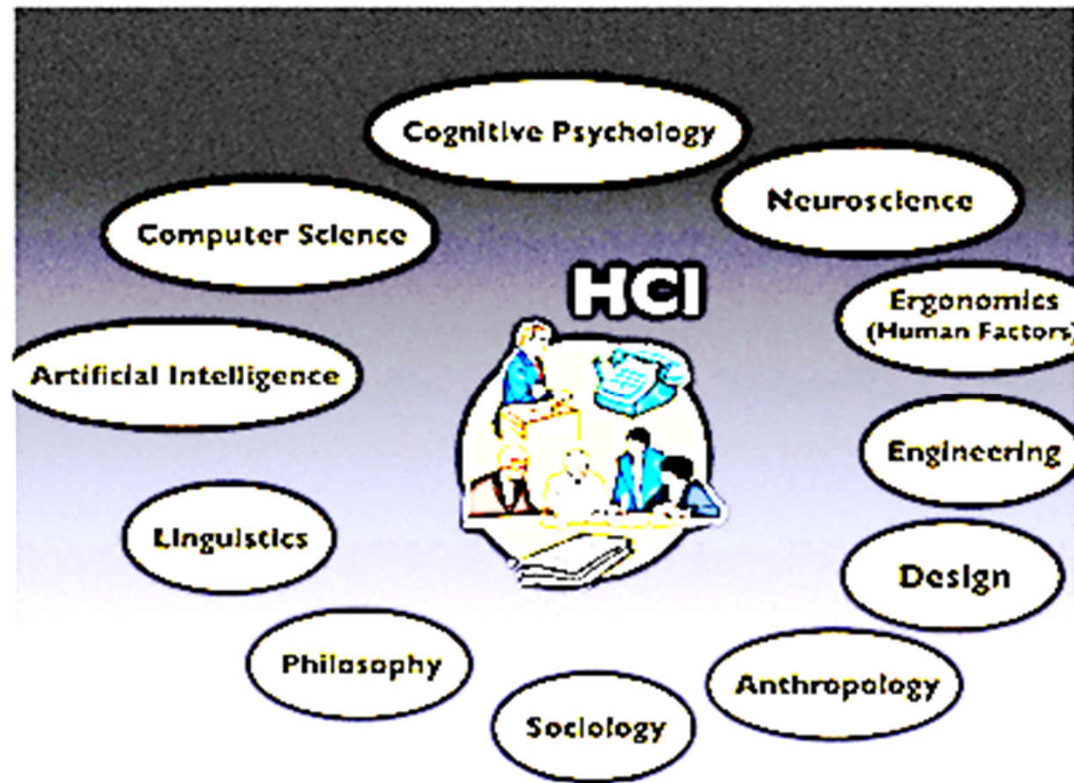
- “ Human-computer interaction is a discipline concerned with the design, evaluation and implementation of interactive computing systems for human use and with the study of major phenomena surrounding them. ”

• [ ACM SIGCHI Curricula for Human-Computer Interaction [Hewett et al., 2002, page 5] ]

# What is Human Computer Interaction (HCI)?

- Human Computer interaction (HCI) is characterized as a dialogue or interchange between the human and the computer because the output of one serves as the input for the other in an exchange of actions and intentions.
- HCI is the study of interaction between people (users) and computers.
- Human Computer Interaction is concerned with the design, evaluation and implementation of interactive computing systems for human use and with the study of major phenomena surrounding them.
- Human Computer Interaction (HCI) is an interdisciplinary field in which computer scientists, engineers, psychologists, social scientists and design professional play important roles.

Human Computer Interaction (HCI) is an  
Interdisciplinary field



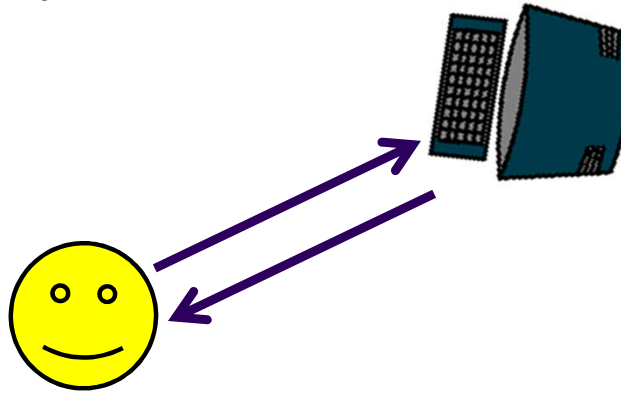
# Human Computer Interaction (HCI)

HCI tackles questions concerning how people interact with computers

- Are computers intuitive or complicated?
- Are computers rewarding or frustrating?
- How can computers be made accessible to everybody (e.g. different physical abilities, different languages etc.)?
- To what level can computer interaction be standardized?
- Are computers “user-friendly”?
- What does it mean to be “user-friendly”?

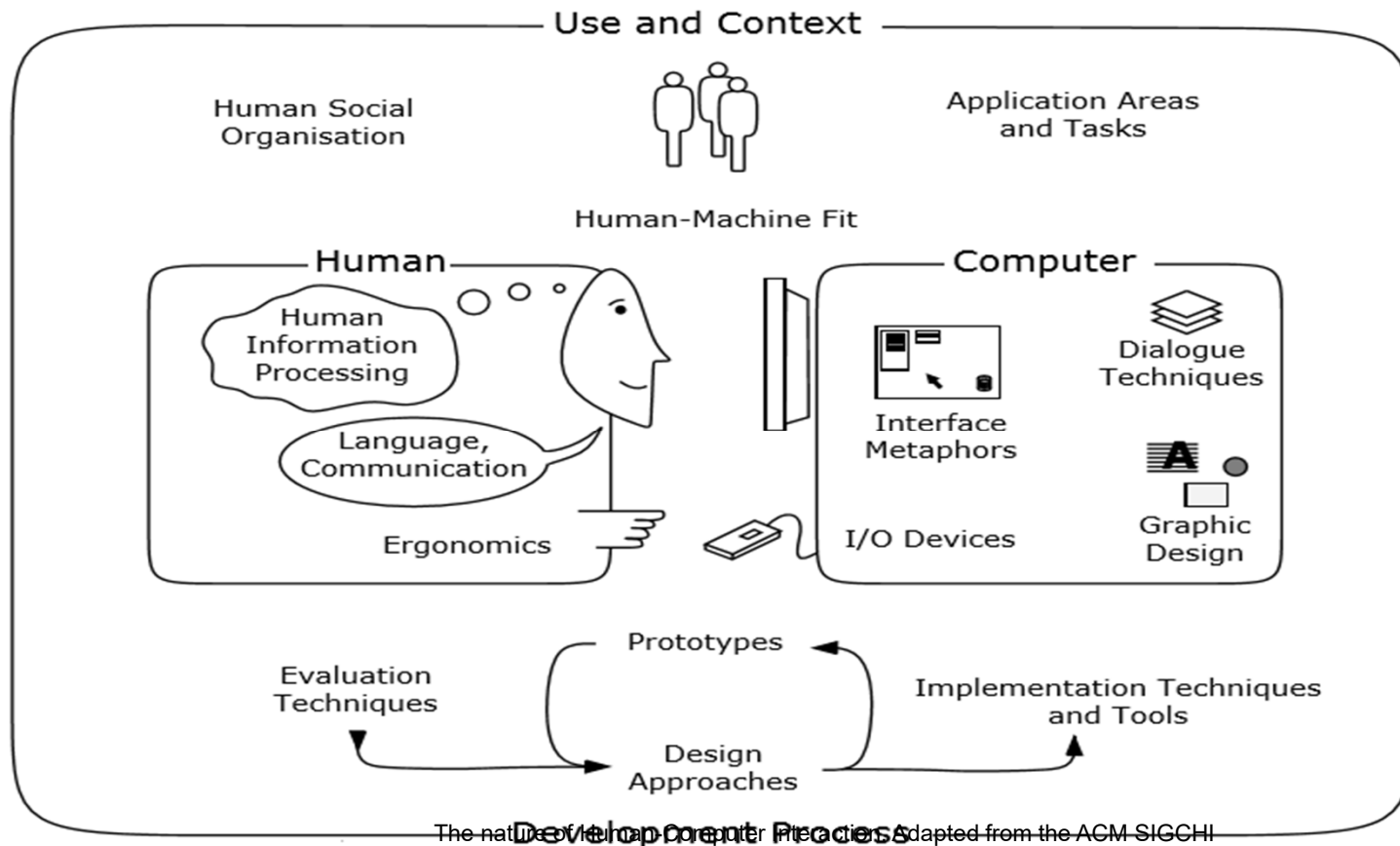
# Human Computer Interaction has Three Components

- Human
- Computer
- Interaction



- *The goal of HCI is to improve the interaction between users and computers by making computers more user-friendly and receptive to the user's needs.*

# Content



The natural development process adapted from the ACM SIGCHI Curricula for Human-Computer Interaction [Hewett et al., 2002]

# References

- 
- Donald Norman, **The Design of Everyday Things**, MIT Press, 23 Dec 2013
- Wikipedia; Human-Computer Interaction:  
[http://en.wikipedia.org/wiki/Human-computer\\_interaction](http://en.wikipedia.org/wiki/Human-computer_interaction)
- ACM SIGCHI:  
<http://acm.org/sigchi/>
- Usability:
  - <http://usability.gov/>