

Introduction to Human-Centered Computing (HCC) Fall 2016

Place: See the schedule; **Time:** 14:00-17:00 Tues

Chair: Prof. Hao-Chuan Wang 清大 王浩全 (Co-Chair: Prof. Neng-Hao Yu 政大 余能豪; Prof. Yung-Ju Chang 交大 張永儒)

Outline: The course aims to provide graduate students of the TIGP program of Social Network and Human-Centered Computing (SNHCC) with an overview of human-centered computing (HCC), particularly from the view of user-oriented computing system design and research. As an emerging, multidisciplinary field, HCC is commonly referred to and characterized by the idea of devising designs of computing systems based on properties, needs and constraints of users and their tasks, rather than the inverse. Thus HCC embodies more than technology building, such as how to the software and hardware systems for supporting people. It also includes systematic understanding of people and interactions between people and technologies. In this course, we'll explain and illustrate the state of the art of human-centered computing, focusing on fundamental concepts and practices of interface/interaction design and engineering, methods for studying users/tasks, methods for design-prototyping, and key topics that are closely related to the TIGP program, such as human computation, social computing, mobile computing, and tangible interaction etc.

Office hours: by appointment

Grades (subject to change): Reading 20%; Proposal 20%; Midterm report 30%. Final report 30%

	Date	Topics/Brief Description	Instructors
1	2016/09/13	Introduction to HCC Design Process (location: IIS, Academia Sinica)	Hao-Chuan, Yung-Ju
2	2016/09/20	Iteration 1- understanding users (location: Delta 632, NTHU)	Hao-Chuan, Yung-Ju
3	2016/09/27	Iteration 1- understanding users (location: Delta 632, NTHU)	Hao-Chuan, Yung-Ju
4	2016/10/04	Iteration 1- Persona, Scenario, Storyboard (location: Delta 632, NTHU)	Hao-Chuan, Yung-Ju
5	2016/10/11	Iteration 1- Ideation, Sketching (location: Delta 632, NTHU)	Hao-Chuan, Yung-Ju
6	2016/10/18	proposal submission (no class)	
7	2016/10/25	iteration 1- prototyping (instructor:Jones ; location: Room 209; DaRen Building, NCCU)	Neng-Hao
8	2016/11/01	iteration 1- prototyping (instructor:Jones ; location: Room 209; DaRen Building, NCCU)	Neng-Hao
9	2016/11/08	midterm report submission (no class)	
10	2016/11/15	iteration 1- evaluation (location: Delta 632, NTHU)	Hao-Chuan, Yung-Ju
11	2016/11/22	iteration 1- evaluation (location: Delta 632, NTHU)	Hao-Chuan, Yung-Ju
12	2016/11/29	Reflection and Next Step (location: IIS N101, Academia Sinica)	Hao-Chuan, Neng-Hao; Yung-Ju
13	2016/12/06	iteration 2: re-evaluation (location: Delta 632, NTHU)	Hao-Chuan, Yung-Ju
14	2016/12/13	iteration 2: re-evaluation (location: Delta 632, NTHU)	Hao-Chuan, Yung-Ju
15	2016/12/20	iteration 2: redesign (instructor: Jones; location: Room 209; DaRen Building, NCCU)	Neng-Hao
16	2016/12/27	iteration 2: redesign (instructor: Jones; location: Room 209; DaRen Building, NCCU)	Neng-Hao
17	2017/01/03	writing final report (no class)	
18	2017/01/10	Final (open presentation of project and report submission) (location: IIS N101, Academia Sinica)	Hao-Chuan, Neng-Hao. Yung-Ju