THE CHINESE UNIVERSITY OF HONG KONG Print Course Catalog Details

May 10, 2023 12:24:47 PM

Academic Org: Dept of Computer Sci & Engg - Subject: AI: Systems & Tech

Course: AIST3510	Course ID: 013214	Eff Date: 2022-07-01	Crse Status: Active	Apprv. Status: Approved	Course Rev
Human-computer Interaction 人機互動					

This course provides an introduction to the fast evolving field of human computer interaction (HCI). HCI is a multidisciplinary subject concerning the design, implementation and evaluation of interactive computing systems for human use, and the study of major phenomena surrounding them. We will provide a broad overview of the field, including the theory and principles underlying good designs, with an emphasis on the interface design process, development and evaluation. We will also sample some state-of-the-art technologies in HCI, such as speech recognition, haptics, virtual reality, software agents and computer supported cooperative work.

人機互動設計的基礎,包括人類處理信息的模型及其理論、智能介面的設計方法、步驟及評估之方法。人機互動的要素:佈局、顯示、規約、對話、程序及誤差的處理。應用 於人機互動的新科技:語音識別、觸感合成、虛擬真實、軟件代理、群體軟件等。

Grade Descriptor: A

EXCELLENT – exceptionally good performance and far exceeding expectation in all or most of the course learning outcomes; demonstration of superior understanding of the subject matter, the ability to analyze problems and apply extensive knowledge, and skillful use of concepts and materials to derive proper solutions.

有關等級說明的資料,請參閱英文版本。

В

GOOD - good performance in all course learning outcomes and exceeding expectation in some of them; demonstration of good understanding of the subject matter and the ability to use proper concepts and materials to solve most of the problems encountered.

有關等級說明的資料,請參閱英文版本。

С

FAIR - adequate performance and meeting expectation in all course learning outcomes; demonstration of adequate understanding of the subject matter and the ability to solve simple problems.

有關等級說明的資料,請參閱英文版本。

D

MARGINAL - performance barely meets the expectation in the essential course learning outcomes; demonstration of partial understanding of the subject matter and the ability to solve simple problems.

有關等級說明的資料,請參閱英文版本。

F

FAILURE - performance does not meet the expectation in the essential course learning outcomes; demonstration of serious deficiencies and the need to retake the course.

有關等級說明的資料,請參閱英文版本。

Equivalent Offering:
Units:
Grading Basis:
Repeat for Credit:
Multiple Enroll:
Course Attributes:

3 (Min) / 3 (Max) / 3 (Acad Progress) Graded N N

Topics:

COURSE OUTCOMES					
Learning Outcomes:					
	 Acquiring the mathematical and engineering foundations that underlie human-computer interaction; Appreciation of the use of other fields of knowledge in the interdisciplinary field of HCI, with the target to achieve a high degree of system usability; Understanding of the integration of component technologies into end-to-end systems that support user-centered HCI; Ability to design and critique user interfaces, as well as conduct empirical evaluation of their interim and overall performances; Awareness of the state-of-the-art technologies that support HCI in real applications and usage contexts. 				
Course Syllabus:					
	This course provides an introduction to the fast evolving field of human computer interaction (HCI). HCI is a multidisciplinary subject concerning the design, implementation and evaluation of interactive computing systems for human use, and the study of major phenomena surrounding them. We will provide a broad overview of the field, including the theory and principles underlying good designs, with an emphasis on the interface design process, development and evaluation. We will also sample some state-of-the-art technologies in HCI, such as speech recognition, haptics, virtual				

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	reality, software agents and computer supported cooperative work.	
Assessment Type:	Essay test or exam : 50% Homework or assignment : 50%	
Feedback for Evaluation:	 Quiz and examinations Course evaluation and questionnaire Question-and-answer sessions during class Student consultation during office hours or online 	
Required Readings:	 Designing the User Interface: Strategies for Effective Human-Computer Interaction (6th Edition / May 3, 2016 Shneiderman, Catherine Plaisant, Maxine Cohen, Steven Jacobs, Niklas Elmqvist, Nicholas Diakopoulos Pearson Education Designing with the Mind in Mind: Simple Guide to Understanding User Interface Design Guidelines (2nd Editi 0124079144) Jeff Johnson Morgan Kaufmann 	
Recommended Readings:		
	OFFERINGS	
1. AIST3510	Acad Organization=CSD; Acad Career=UG	
	COMPONENTS	
	LEC : Size=30; Final Exam=Y; Contact=3 TUT : Size=30; Final Exam=N; Contact=1	
	ENROLMENT REQUIREMENTS	
1. AIST3510	Enrollment Requirement Group: Not for students who have taken SEEM3510	
	New Enrollment Requirement(s): Exclusion = no change	

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eLearning hrs for blended cls 0 No. of micro-modules 0 Research components (UG) 0%

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