國立清華大學課程大綱

科號		學分	3	人數限制	40
上課時間	星期二 16:30-19:10	教室	綜二 205		
科目中文名稱	人工智慧與藝術創新				
科目英文名稱	Artificial Intelligence and Art				
任課教師	包盛盈				
擋修科目		擋修	No prerequisite, but best for students who have programming skills and/or art production experiences.		

一、課程說明	On October 25, 2018, one of the best art auction houses sold a piece of art created by Artificial Intelligence (AI) for $350,000, after intense competition from bidders over the phone, in the room, and online. Is artificial intelligence the future of art? Artificial iIntelligence not only impacts the development of technology, but also changes the nature of creative processes. This course will discuss how computers enable creative activities such as music, new media, design, fine arts, and entrepreneurial work. What is the relationship between Artificial Intelligence and human creativity? Do computers have creativity? How to “create” values out of this new form of “creativity”? This course will provide guidelines to interdisciplinary research, creative methods, and practical approaches. With the guidelines, this course offers opportunities for students to have practical experience to exercise creative thinking, to develop problem-solving abilities, and hone their research skills, throughout the process of building projects from idea generation to final production. This course registration is open to graduate students and junior/ senior undergraduate students who are interested in interdisciplinary research crossing art, technology and entrepreneurship.

二、教學進度	週次	日期	課程內容
	一	9/14	Introduction
	二	9/21	State of the art and future of artificial intelligence
	三	9/28	Artificial intelligence and human creativity
	四	10/5	Artificial intelligence and art industry
	五	10/12	Develop your ideas
	六	10/19	Artificial Intelligence in music
	七	10/26	Case Study (I)
	八	11/2	Artificial Intelligence in design
	九	11/9	Case Study (II)
	十	11/16	Midterm presentation: Refining your ideas and project prototyping
	十一	11/23	New ventures in AI and art
	十二	11/30	Artificial Intelligence in new media
	十三	12/7	Case Study (III)
	十四	12/14	Artificial Intelligence in fine art
	十五	12/21	Case Study (IV)
	十六	12/28	Project Prototyping
	十七	1/4	Critique
	十八	1/11	Final Presentation
四、成績考核	評分方式 (Grading Policy) 出席：16 %, 上課討論與表現 24 %, 期中與末報告 60 %		