



Machine Intelligence - Principles and Applications

(TECS2461)

<p>Introduction</p>	<p>This is an introductory course to machine intelligence and its computational realization. Students will learn the fundamental concepts and theoretical principles of machine learning, and their applications in speech, language and image processing. The course provides hands-on training on Python programming and guides students through the Python implementation of speech and image recognition systems.</p> <p>This course is co-organized with Department of Electronic Engineering, CUHK.</p>
<p>Programme Type / Level</p>	<p>Intermediate Course in Artificial Intelligence (Token-required)</p>
<p>Instructor(s)</p>	<p>Prof. Tan Lee (Associate Professor and Director of Undergraduate Studies, Department of Electronic Engineering, The Chinese University of Hong Kong)</p> <p>Prof. Hongsheng Li (Assistant Professor Department of Electronic Engineering, The Chinese University of Hong Kong)</p>
<p>Pre-requisite</p>	<p>No special prerequisites are needed</p>
<p>Target Participants</p> 	<ul style="list-style-type: none"> ➤ S1 – S6 HKAGE student members ➤ Class size: 20 ➤ Priority will be given to student members who are awarded Certificate of Distinction or Certificate of Merit in Introductory Course in Computer Programming: Introduction to Computer Programming Using C++ (TECS1441) in 18/19 school year.
<p>Medium of Instruction</p> 	<p>English (supplemented by Cantonese or Putonghua) with English handouts.</p>
<p>Certificate</p> 	<p>E-Certificate will be awarded to participants who have:</p> <ul style="list-style-type: none"> ❖ Attended at least 8 sessions; AND ❖ Completed all the assignments with satisfactory performance
<p>Intended Learning Outcomes</p> 	<p>Upon completion of the programme, participants should be able to:</p> <ol style="list-style-type: none"> 1. state the meanings of artificial intelligence and machine learning; 2. explain the basic principles of machine learning; 3. describe the major applications of machine learning 4. explain the operation of an automatic speech recognition system; 5. explain the operation of an image recognition system; 6. apply software tools to design an application of machine intelligence.
<p>Screening</p> 	<p>Please answer the screening question in the online application form.</p> <p>*The screening question is designed to help the applicant understands the course level and the course content. The question must be answered by the student applicant and it can only be attempted once. The answer cannot be changed once the application is submitted. Selection is based on students' performance in answering the question. Only students who can demonstrate motivation and the basic knowledge of Artificial Intelligence in the screening question can be enrolled in the programme.</p>
<p>Application Deadline 9 Mar 2020</p>	<p>Application Result Release Date 13 Mar 2020</p>
<p>If student members withdraw from the programme after the Application Deadline, the token will be deducted.</p>	

Schedule



Session	Date	Time	Venue
1	28 Mar	9:30 a.m. – 12:30 p.m.	The Chinese University of Hong Kong Changed to online lecture (Details will be sent to the selected students via email)
2	28 Mar	2:00 p.m. – 5:00 p.m.	
3	11 Apr	9:30 a.m. – 12:30 p.m.	
4	11 Apr	2:00 p.m. – 5:00 p.m.	
5	18 Apr	9:30 a.m. – 12:30 p.m.	
6	25 Apr	9:30 a.m. – 12:30 p.m.	The Chinese University of Hong Kong Changed to online lecture
7	25 Apr	2:00 p.m. – 5:00 p.m.	
8	2 May	9:30 a.m. – 12:30 p.m.	
9	2 May	2:00 p.m. – 5:00 p.m.	The Chinese University of Hong Kong Changed to online lecture
10	9 May	9:30 a.m. – 12:30 p.m.	

Enquiries



For enquiries, please contact us at 3940 0101 after language selection, press "1".

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