

Artificial Intelligence

Jane Hsu

Computer Science & Information Engineering

National Taiwan University

Spring 2018



U3020 Artificial Intelligence

- p When: Tuesdays 14:20~17:20pm (2 x 15-min breaks)
- p Where: CSIE#102
- p Who: CSIE PhD/MS/upper-level undergrads
- p What: an introduction of the model, theory, and algorithms of artificial intelligence.
- p **Web site:**
 - p <https://course.agent.csie.ntu.edu.tw/>
 - p **Facebook Group: Introduction to AI@NTU (2018 Spring)**
- p Instructor: 許永真教授 (Jane Hsu yjhsu@csie.ntu.edu.tw)
- p TAs (aita2018@agent.csie.ntu.edu.tw)
 - p 許書宇 (**Kevin**)
 - p 張介騰 (**Scott**)
 - p 王斯泓 (Sean)
 - p 葉俊言 (Jacky)

Prof. Jane Yung-jen Hsu 許永真

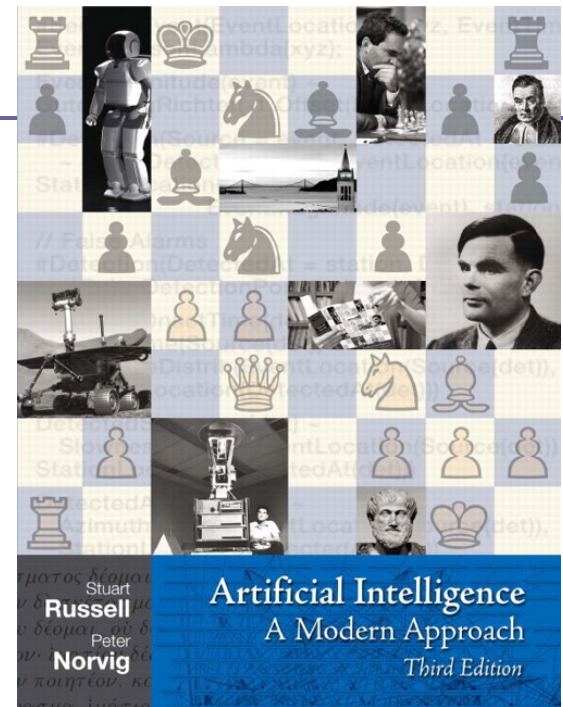
National Taiwan University

- ▶ Director, NTU IoX Center, featuring global research collaboration among MOST/Taiwan, NTU, Intel, Delta, and xxx.
- ▶ Professor, Computer Science and Information Engineering/Graduate Institute of Networking and Multimedia at National Taiwan University.
- ▶ President of Taiwanese Association for Artificial Intelligence (2013-2014) — board member since its founding in 1995.
- ▶ Her research interests include multiagent planning/learning, knowledge mining, crowdsourcing, commonsense computing, and context-aware smart IoT.
- ▶ PhD, Computer Science, Stanford University



Textbook

- p Artificial Intelligence: A Modern Approach, 3rd Ed. By Stuart Russell and Peter Norvig, published by Pearson Education/Prentice Hall, 2010.
- p Official AIMA Web Site
<http://aima.cs.berkeley.edu/>
- p Selected papers and online resources



Getting the Textbook

- p 3rd edition available from 新月圖書/東華書局
 - 台北市重慶南路一段143號3樓
 - 東華書局 吳飛龍先生 (0937-950-267)
- p The vender will bring the books here on Tuesday, 3/06/2018.
- p Price: NTD\$1000

Language

p 中文

p The following will be in English.

- All course materials
- Course-related announcements

p You may use either Chinese or English for

- Asking questions in class
- Q/A and discussions online
- TA sessions
- Sending emails to TA's

Office Hours

p TA (in Lab#336)

- TBD

p Professor

- Tuesdays 17:20pm~18:00pm
- To make an appointment, please email yjhsu@csie.ntu.edu.tw with specific requests

Course Outline

Goals

- p To gain an overall understanding of the basic concepts in AI
- p To lay a foundation for further study in the field of artificial intelligence

Topics covered in Intro AI

- p Problem solving & search
- p Game search w/ machine learning
- p Knowledge representation & Inference
- p Probabilistic models
- p Knowledge representation and language processing

Schedule

- p To receive course-related announcements, register at iSpace CourseWeb
 - Follow the instruction for account registration:
 - p surname: use your Student ID in lower case
 - p <https://goo.gl/RXktxd>
- p Important dates
 - 02/27/2018 Introduction
 - 04/24/2018 Midterm
 - 06/19/2018 Term project poster session
 - 06/26/2018 Term project report

Useful Background Knowledge

p Programming Languages

- Python

p Algorithms

- Design
- Analysis

p Math

- Probability
- Linear Algebra
- Mathematical Logic

Grading

p	Written assignments	20%
p	Programming assignments	20%
p	Midterm	30%
p	Term Project	30%
p	Participation bonus	5%
	▪ Q&A in class	
	▪ Log your activities with the TA's on the same day	

Honor Codes

- p Respect yourself and others.
- p Discussion is encouraged.
- p Work out solutions independently.
- p Do not copy/lend solutions from/to others.
- p Cheating is not tolerated.
- p Any homework/exam in violation of the Honor Codes will receive 0 credits.
- p Serious offenders will be reported to the school for due punishment.
- p *Zero tolerance – there is no exception!*

There's no dumb question.



Authorization Codes for Adds

- p Pre-requisites for authorization codes
 - p Complete hw0 — meeting all specs
 - p Attend the TA tutorial on March 6th.
- p Priority
 - Students in their last semester of program
 - Students fulfilling immediate research needs
 - Students with other strong justification (be ready to provide a good reason)

Action Items

- p iSpace CourseWeb

- p <https://goo.gl/RXktxd>

- p Facebook Group:

- p [Introduction to AI@NTU \(2018 Spring\)](#)

- p Assignment No.0

- p <https://goo.gl/QTdHNG>

- p Questions to TA's

- p aita2018@agent.csie.ntu.edu.tw

Everyone is invited!



Microsoft Open House Envision your AI career with Microsoft!

2018年1月10日，微軟AI研發中心正式在台成立，為首家國際型企業在台投資層級提升至前端科技研發，攜手行政院與經濟部共同培育人才，推動AI產業化、加速產業AI化。想知道微軟在台灣新成立的Microsoft AI R&D Center的研究方向，歡迎報名參加Microsoft Open House!

當天除了有Microsoft AI Research and Investment sharing、Microsoft AI Lab in Taiwan Introduction之外，還有Microsoft Technology Demo Tour-HoloLens/Cognitive Service/IoT demo...，實際體驗微軟各種科技！

報名對象：大專院校在校生，應屆畢業生優先

日期：3/12(一) 14:00-16:30

地點：台灣微軟辦公室（台北市信義區忠孝東路五段68號19樓，捷運市政府站三號出口）

報名截止日期：3/5(一) 18:00表單關閉

※請注意，由於場地人數限制，會於3/5 19:00透過您所留下之信箱回覆確認報名成功與否，活動當日需本人出示學生證簽到並領有名牌方可入場。若有不便之處，敬請見諒。

若有任何疑問，請發信至campustw@microsoft.com

