

새로운생명체:인공지능

강의 홈페이지: www.ejwoo.com

EJW

ABOUT LECTURE

EUNG JE WOO, PROF.

Department of Biomedical Engineering
College of Medicine
Kyung Hee University
26 Kyungheedaero, Dongdaemun-gu
Seoul 02447, Korea

Tel: +82-2-961-9502
Fax: +82-2-958-2889
E-mail: ejwoo@khu.ac.kr
Skype: eung.je.woo

우응제 교수

경희대학교 의과대학 의공학교실
경희의료원 경희의과학연구원 의료기기연구소
서울시 동대문구 경희대로 26 (02447)

전화: 02-961-9502
팩스: 02-958-2889
메일: ejwoo@khu.ac.kr
Skype: eung.je.woo

CV

- Febraury 2019

RESEARCH

- Impedance Imaging Research Center (IIRC)

새로운생명체:인공지능 (2020년 1학기)

UNDERSTANDING ARTIFICIAL INTELLIGENCE (SPRING 2020)

ANNOUNCEMENT

- 3월 16일(월) 개강
 - 청운관 715호
 - [Report template \(PowerPoint\)](#)
 - 중간고사:
 - 기말고사:
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LECTURE NOTE

- 진화와 상상력의 역사 (사피엔스, 유발 하라리, 2015)
- Atom, molecule and matter
- Fundamental quantities
- History of electromagnetics
- Neuron and neural network
- Vision (updated on Sep. 23, 2019)
- Human and computer
- Curve fitting
- Probability

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- Vision (updated on Sep. 23, 2019)
- Human and computer
- Curve fitting
- Probability
- Bayesian learning
- Information theory
- Knowledge representation and learning
- Optimization
- Artificial neural network
- 2045년 예측 (original report: Global strategic trends - out to 2045)

SUPPLEMENTARY MATERIAL

- History of artificial intelligence (lecture note, 27 pages)
- Machine learning: the power and promise of computers that learn by example (report, 128 pages)
- Artificial intelligence and life in 2030 (report, 27 pages)
- Preparing for the future of artificial intelligence (report, 58 pages)
- Artificial intelligence, automation, and the economy (report, 55 pages)
- AI, machine learning and data fuel the future of productivity (report, 99 pages)
- Artificial intelligence: the next digital frontier? (discussion paper, 80 pages)
- Economic and labor force implications of AI (testimony, 15 pages)
- A Berkeley view of systems challenges for AI (technical report, 13 pages)
- Ethics of artificial intelligence (paper, 21 pages)

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꽃표

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STUDENT PRESENTATION

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LINK

- [Frontiers of Machine Learning, National Academy of Sciences](#)
 - [Future of Humanity Institute](#)
 - [Machine Intelligence Research Institute](#)
 - [Foundational Research Institute](#)
 - [AI Now Institute](#)
 - [AI Index](#)
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PYTHON

- [An intriduction to Python for absolute beginners \(original link at University of Cambridge\)](#)
 - [Python formatting code](#)
 - [Machine learning using Python](#)
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MATLAB

- [Matlab primer](#)
 - [Machine learning using Matlab](#)
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STUDENT PRESENTATION (2019년 2학기)

- 11/11(월) 김도연, 손성민 (When will AI exceed human performance)
- 11/11(월) 최진아, 안세일 (Preparing for the future of AI)
- 11/18(월) 박태준, 안준영, 윤동국 (History of artificial intelligence)
- 11/18(월) 이효재, 박진형, 김석준 (A Berkeley view of system challenges for AI)
- 11/18(월) 신흥민, 김동현, 최승호 (Economic and labor force implications of AI)
- 11/25(월) 길여원, 류지연, 한수민 (Artificial intelligence and life in 2030)
- 11/25(월) 두은서, 백윤재, 이수민 (Ethics of artificial intelligence)
- 12/2(월) 조한걸, 이윤영, 이충환 (Artificial intelligence, automation, and the economy)

STUDENT PRESENTATION (2019년 1학기)

- 5/1(수) 남승현, 박요한 (Artificial intelligence, automation, and the economy)
- 5/1(수) 고현승, 황민정 (Economic and labor force implications of artificial intelligence)
- 5/8(수) 신영민 (Artificial intelligence and life in 2030)
- 5/8(수) 심정보 (History of artificial intelligence)
- 5/15(수) 황교휘 (Ethics of artificial intelligence)
- 5/20(월) 이원도 (Ethics of artificial intelligence)
- 5/20(월) 양지예, 조현경, 김병규 (History of artificial intelligence)
- 5/22(수) 김희웅, 이승희 (Ethics of artificial intelligence)
- 5/22(수) 이정현, 진혜윤-TANRUIFANG, 김련-JINLIAN (Artificial intelligence and life in 2030)
- 5/22(수) 윤정우, 이예진 (When will AI exceed human performance?)
- 5/22(수) Liu Mengmeng, Wang Zehui, Lu Hongfei, Li Hao, PIAOYUNHAI (Economic and labor force implications of AI)
- 5/27(월) Du Xin Yi, Tulkinov Shokhrukh (Economic and labor force implication of artificial intelligence)

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