

Lecture #0

Artificial Intelligence

INT404

Course Overview

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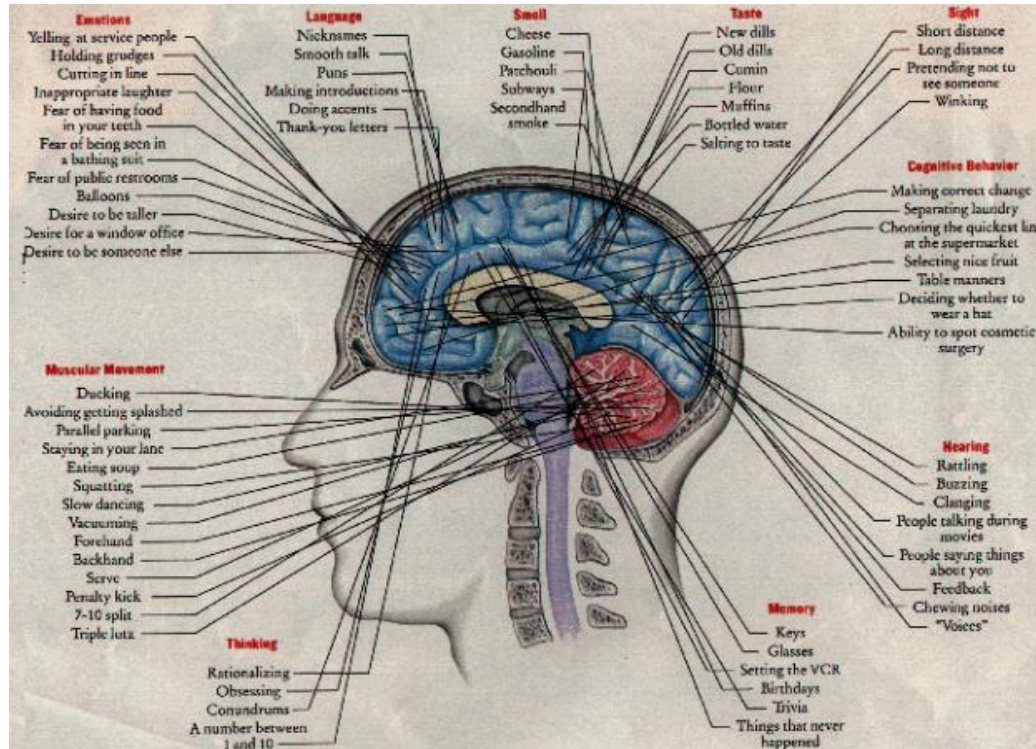
Text Book:

- “ARTIFICIAL INTELLIGENCE”, RICH, KNIGHT, Mc GRAW HILL , 3rd Edition (2009)

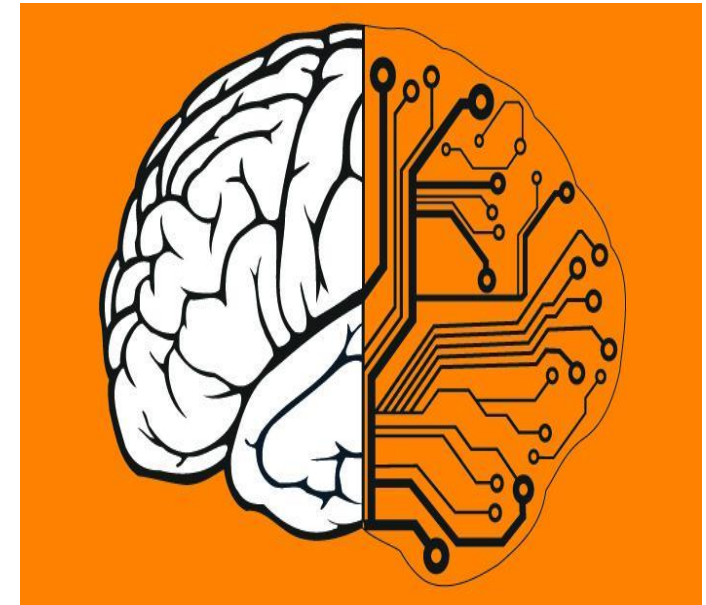
Reference books:

- “ARTIFICIAL INTELLIGENCE: A MODERN APPROACH” by STUART RUSSEL, PETER NORVIG, PEARSON, 2nd Edition, (2012)
- “Artificial Intelligence with Python “ by PRATEEK JOSHI, PACKT, 1st Edition,(2017)

What is AI?

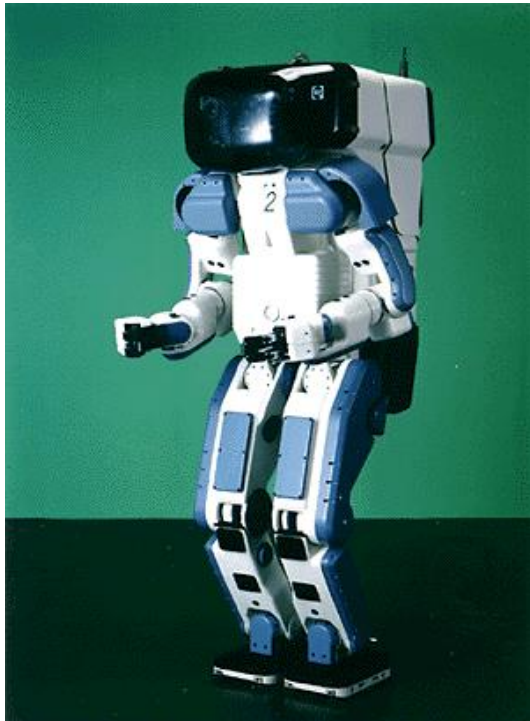


Human Brain

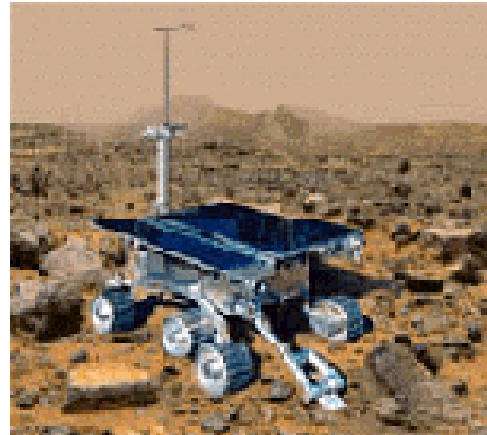


Mapping of Human brain into machine

Why study AI?



Labor



Science

Google™

YAHOO!

Search engines



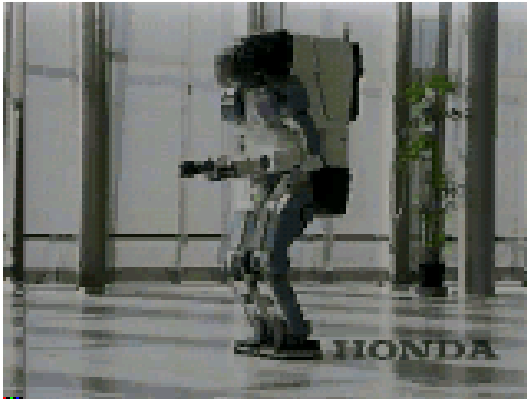
Medicine/
Diagnosis



Appliances

What else?

Honda Humanoid Robot



Walk

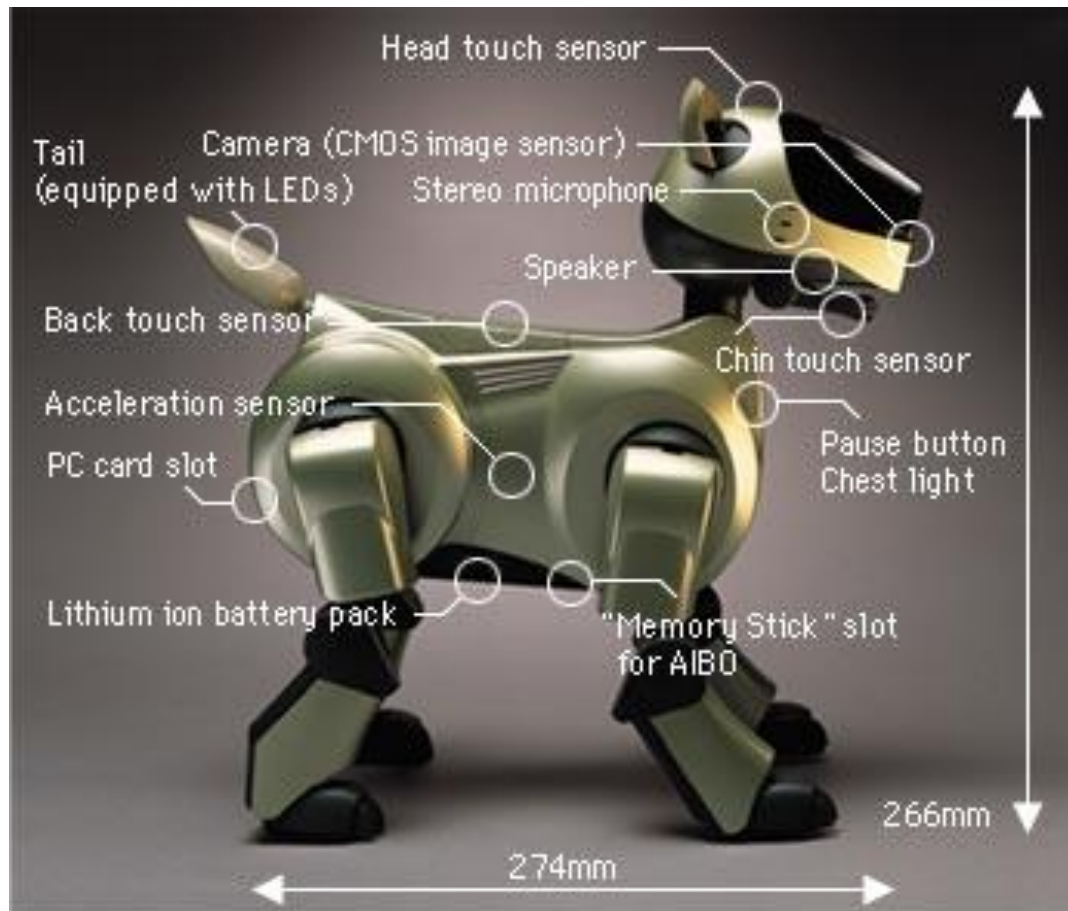


Turn



Stairs

Sony AIBO



Natural Language Question Answering



<http://aimovie.warnerbros.com>

<http://www.ai.mit.edu/projects/infolab/>

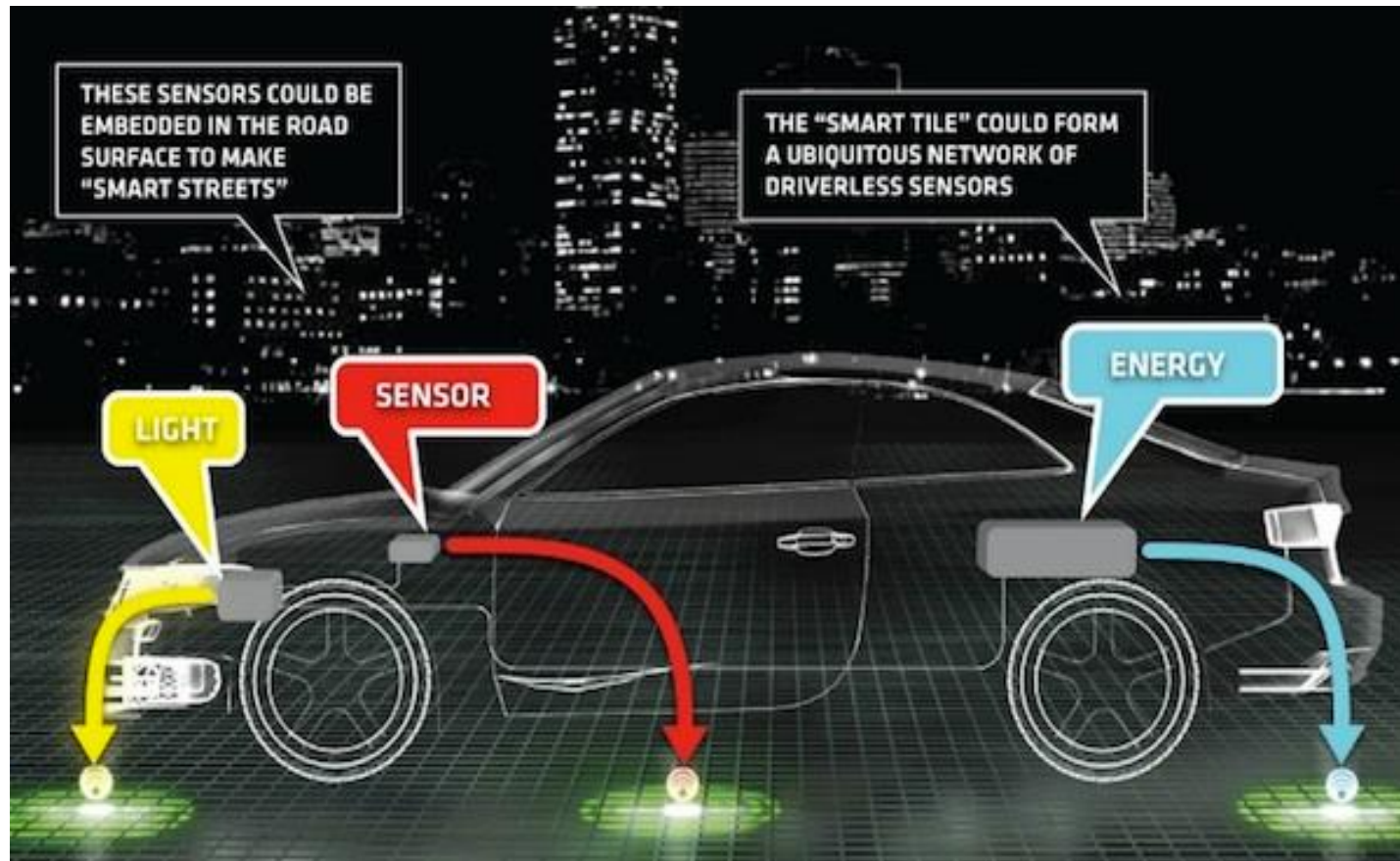
Milestone in the field of Artificial Intelligence



Robot holding electric bulb



Driver-less Car



Human vs Robot Table Tennis game

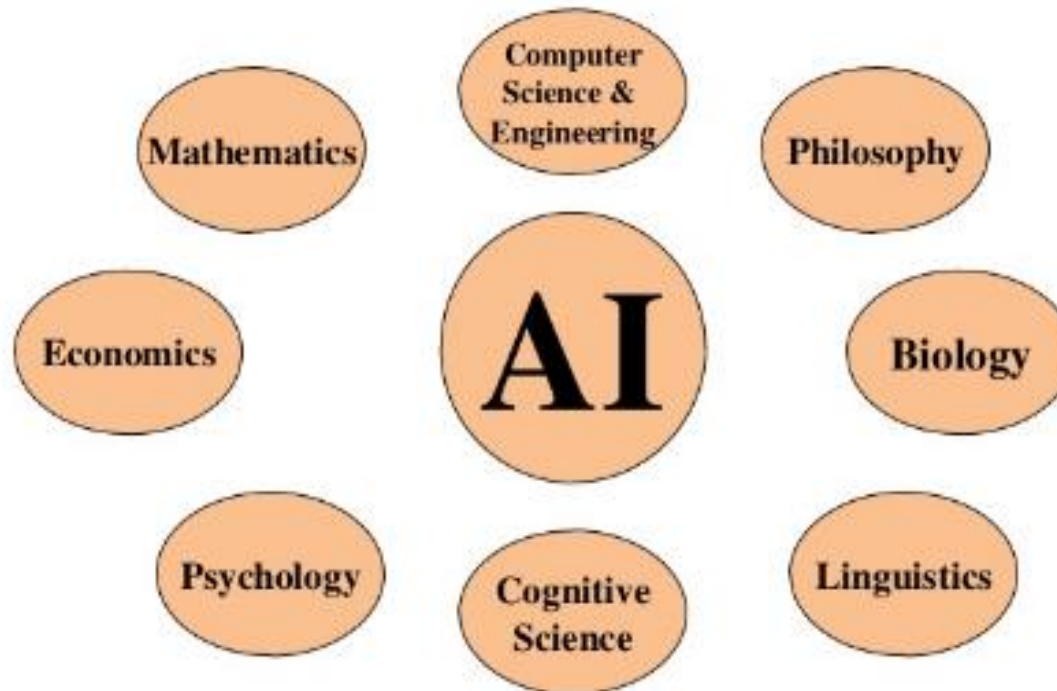




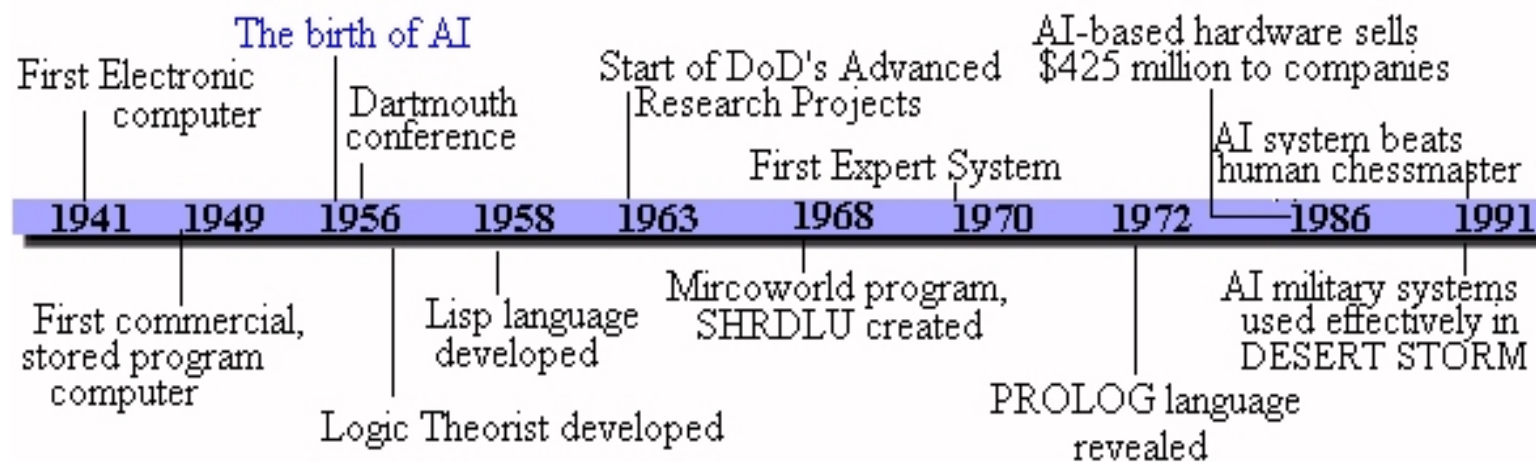
Python Packages Required for AI

- numpy
- pandas
- simpleai
- logic
- sympy
- nltk
- easyAI
- sklearn
- skfuzzy

Unit 1 Foundations of AI



Unit 1 Time-line of AI



Unit 1 Application areas of AI

