# 6.034 What It's All About Revisited

Kimberle Koile and friends

December 11, 2019



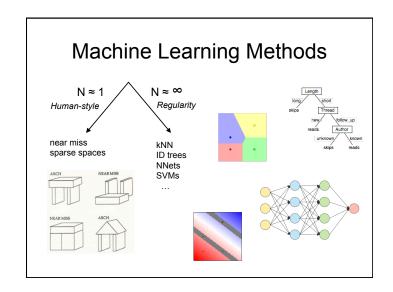
# In Memoriam

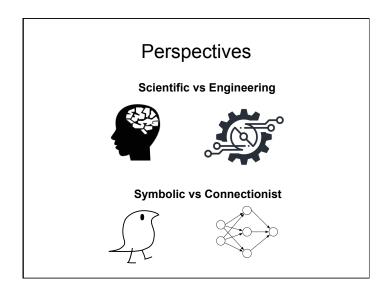


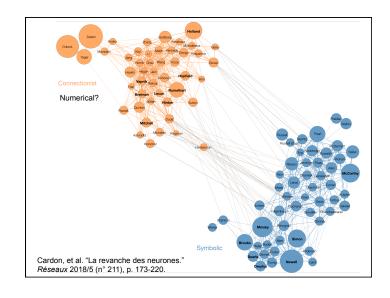
Professor Patrick H. Winston

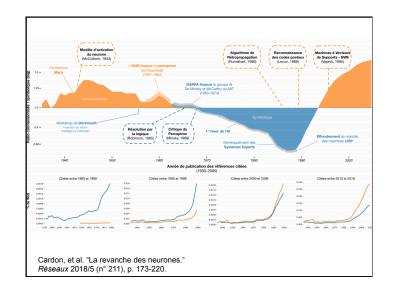
# What We Studied

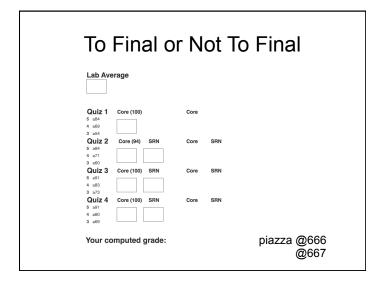
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Reasoning	Learning	Our symbolic species
Goal trees	Nearest neighbors	Architectures
Rules	Identification trees	Representation
Basic search	Genetic algorithms	Brain-mind connection
Optimal search	Sparse spaces	Language and vision
Games	Near miss	Merge
Constraints	Neural Networks	Stories
Bayes	Bayes nets	Human-machine
	SVM	connection
	Boosting	

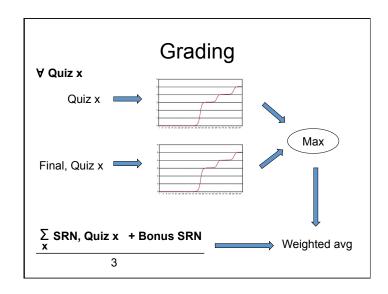


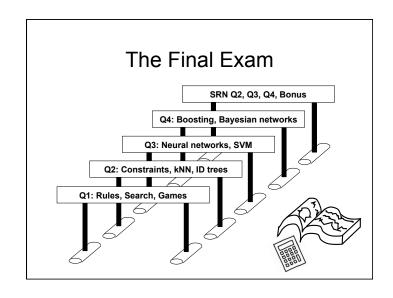


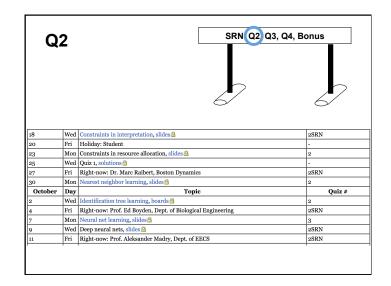


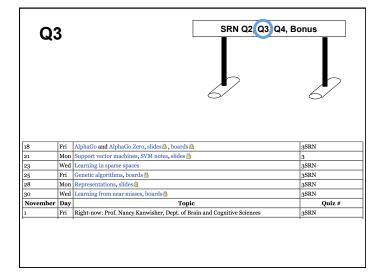


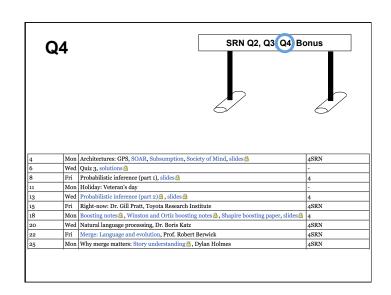


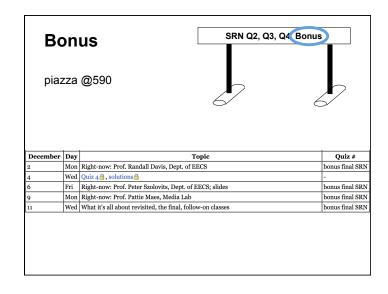












# **MIT Classes**

### EECS (course 6)

HCI: 6.835 Intelligent Multimodel User Interfaces (Davis)

Healthcare: 6.871J Machine Learning for Healthcare (Szolovits, Sontag)

Advanced Programming Methods: 6.817J, 6.885, 6.945

Biology: 6.047/6.878J, 6.049J, 6.802J Cognitive Science: 6.804J, 6.863J

Hardware: 6.812/6.825 Leadership: 6.S976

Machine Learning, Inference: 6.036, 6.435, 6.437, 6.862, 6.867, 6.881, 6.883,

6.S979

Natural language, Speech: 6.806/6.864, 6.345, 6.863J Robotics: 6.141J, 6.832, 6.834J, 6.881, 6.882

BCS (course 9), BE (course 20), Media Lab (MAS)

# Reemergence of Al Al is everywhere! Wearables Deep learning Robotics Autonomous vehicles Artificial general intelligence: speech understanding, image recognition, NL processing, story understanding

## Robots need civil rights, too

OK Google, stop terrifying my toddler: When smart homes make life miserable

Amazon workers are listening to what you tell Alexa

Facial recognition may reveal things we'd rather not tell the world. Are we ready?

Facial recognition zeroes in on genetic disorders

The State Police know every time you drive on or off

Cape Cod

Can these researchers catch cancer much earlier than ever before?

> Researchers are developing artificial intelligence that can detect moods, sarcasm, even mental illness

Teaching self-driving cars to read minds

YOU ONLY YOU YOU CAN'T CAN DO IT CAN DO IT ALONE

### "We can see only a short distance ahead, but we can see that much remains to be done."

1950 Turing



Vol. LIX. No. 236.]

[October, 1950

### MIND

A QUARTERLY REVIEW

PSYCHOLOGY AND PHILOSOPHY

I.—COMPUTING MACHINERY AND INTELLIGENCE