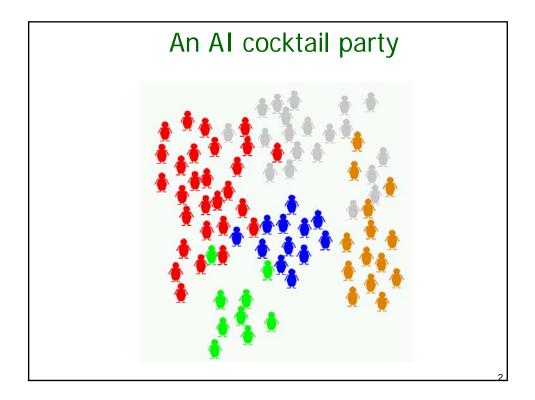
AI

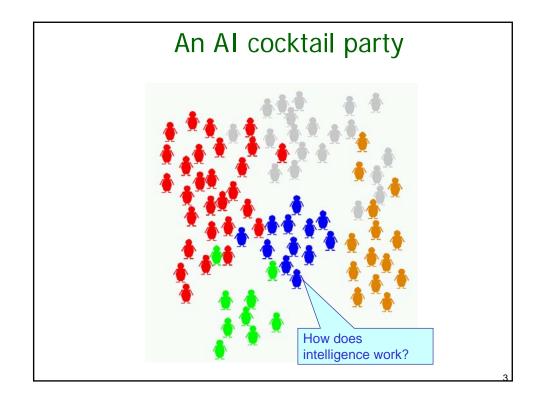


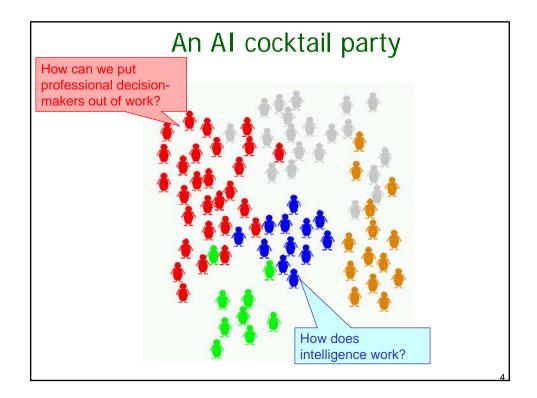
Andrew W. Moore

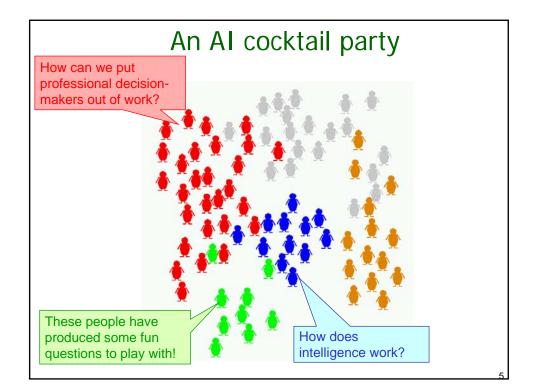
Carnegie Mellon University

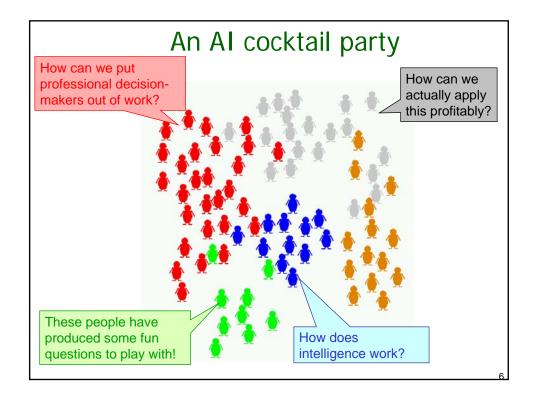
awm@cs.cmu.edu (Questions welcome about anything)

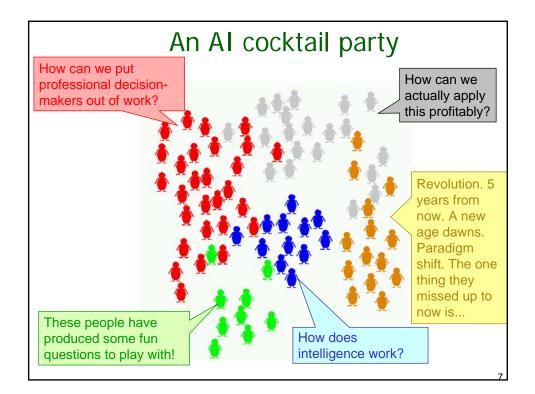


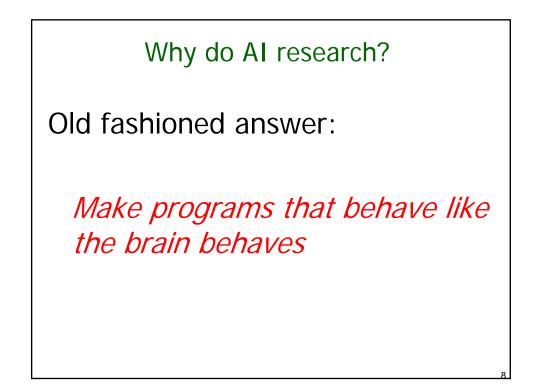












Why do AI research?

New fashioned answer:

Make programs that behave like the brain <u>should</u> behave

"Natural AI" questions.....

- Can we make something that is as intelligent as a human?
- Can we make something that is as intelligent as a bee?
- Can we get something that is really evolutionary and self improving and autonomous and flexible....?

"Algorithmic Al" questions.....

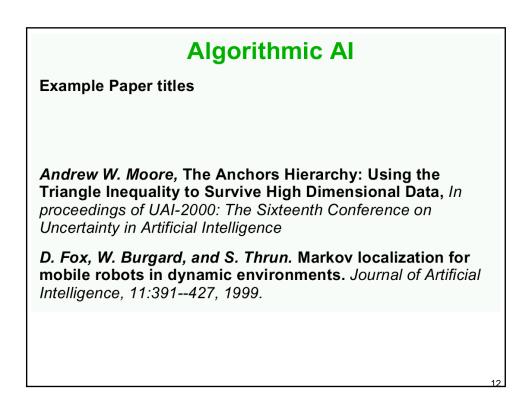
- Can we save this plant \$20million a year by improved pattern recognition?
- Can we save this bank \$50million a year by auto fraud detection?
- Can we start a new industry of handwriting recognition / automated negotiation / helpdesks /?

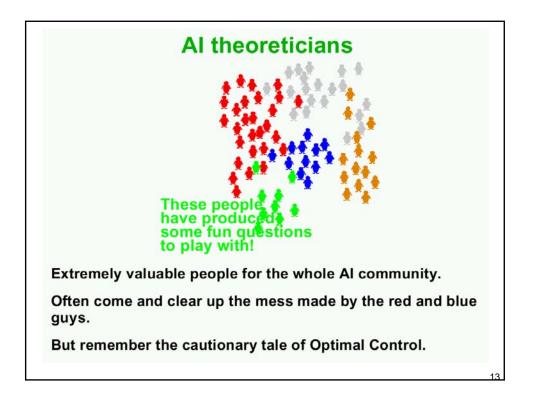
Natural AI

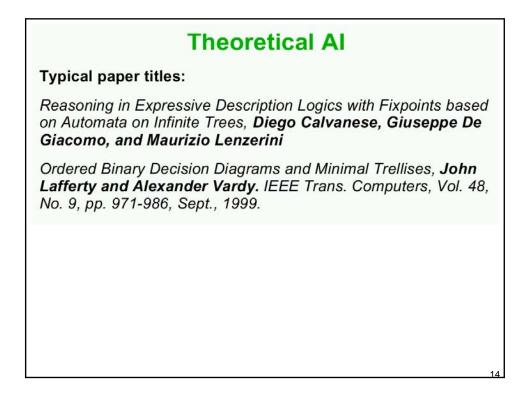
Typical Paper Title:

Effective Learning Requires Neuronal Remodeling of Hebbian Synapses -- Gal Chechik, Isaac Meilijson, Eytan Ruppin,

Lee, T.S. (2000) Neural Processes Underlying Attentive Perceptual Organization . To appear in Perceptual Organization in Vision: Behavioral and Neural Perspectives Ed. M. Behrmann, C. Olson and R. Kimchi, Lawrence Erlbaum Associates.







Snake-Oil A.I.

Typical paper title

CUTEWARP: A hierarchical framework for agent-based emotes--are fuzzy genomes the T-cell of the heterogenous agent's collaborative protocol-base? (a meta-XML perspective)

Buzzwords associated with AI over time

1970s: Artificial Intelligence

1980s: Knowledge Based Systems (IKBS), Fuzzy Logic, Satisficing

1990s: Neural Nets, Cased-Based Reasoning, Genetic Algorithms, Distributed Al

2000s: Agents, Evolutionary Systems

