

Agents: An Introduction Agent Architecture Prototype Agents i Internet Software Agents i Intranet Printer Agents Concluding Remarks

Agents: An Introduction

If agents are the solution.....
.....What is the problem?

People are constantly suffering from

Too much work

Too much information

Too little time

Scenario: Information Filtering

Upon logging in, you are presented with a list of emails, sorted in order of importance by your PDA.

You are then presented with a list of news articles; your attention is drawed to one particular article, which describes a new work related to your own.

After an electronic discussion with a number of other agents, your PDA has already obtained a relevant technical report for you from an FTP site, in the anticipation that it will be of interest.

Scenario: Action & Planning

You are editing a file, when your PDA requests your attention: an email has arrived, which contains notification about a paper you submitted to an important conference.

The paper has been accepted, and without prompting, the PDA begins to look into travel arrangements, by consulting a number of databases and networked information sources.

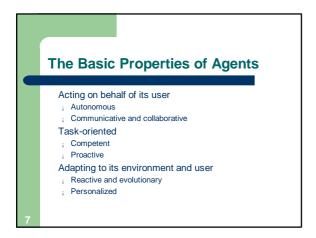
A short time later, you are presented with a summary of the cheapest and most convenient travel options.

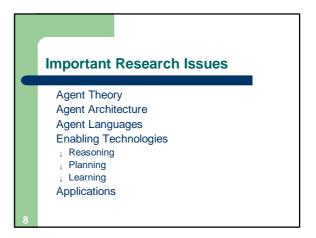
The Problems

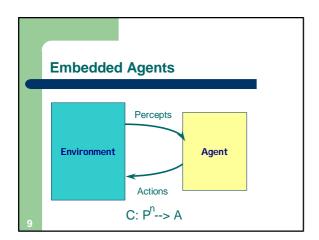
Computers today don;t have such capabilities vet!

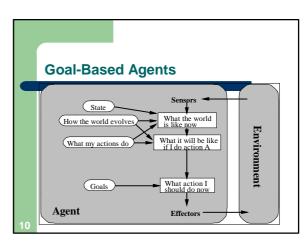
- , Passive --- computers as tools
- i Inflexible
- ; System-centered
- ; Lack of goals

Almost all you need to know is there, but you can never find it!









Agent Architectures

Deliberative agent architecture
Reactive agent architecture
Behavior-based agent architecture
Hybrid agent architecture
Distributed/mobile agent architecture
Communicative/collaborative agents



