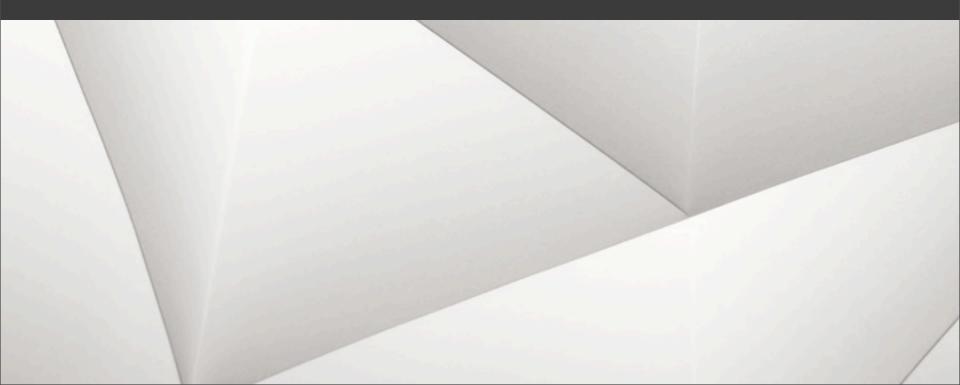
Proactive Assistant Agents

Organizers: **Felipe Meneguzzi and Jean Oh** Carnegie Mellon University



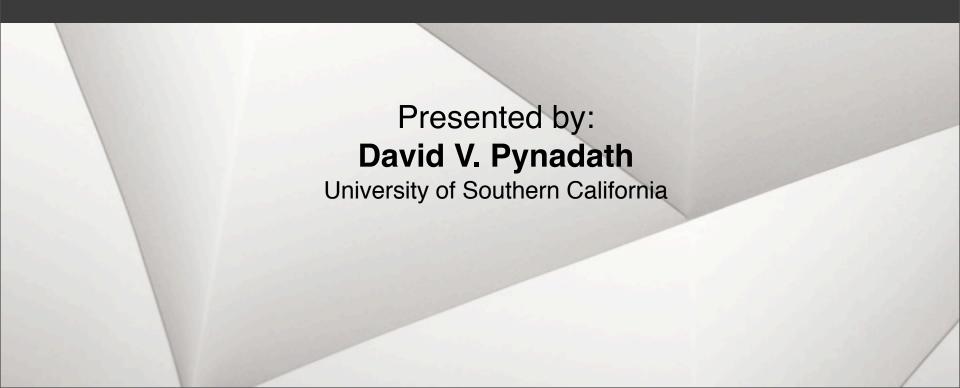
Proactive Assistant Agents

Organizers: Felipe Meneguzzi and Jean Oh

PAA says: You have forgotten to include your name. I will do that for you.

Proactive Assistant Agents

Organizers: **Felipe Meneguzzi and Jean Oh** Carnegie Mellon University



Decide whether user needs assistance

Determine what assistance to give

Give assistance in useful way

- Decide whether user needs assistance
 UM
- Determine what assistance to give

Give assistance in useful way

- Decide whether user needs assistance
 UM
- Determine what assistance to give
 AI
- Give assistance in useful way

- Decide whether user needs assistance
 UM
- Determine what assistance to give
 AI
- Give assistance in useful way
 HCI

- Decide whether user needs assistance
 UM
- Determine what assistance to give
 AI
- Give assistance in useful way
 HCI

PAA = UM + AI + HCI

Agent Tasks

- Intelligent tutoring systems
 - Folsom-Kovarik et al.
- News reading
 - lacobelli et al.
- Workflow management
 - Gil et al.

Elder Care

- Han & Pereira, Lin & Makedon
- Disaster Response, Threat Detection



Building models

.....

- Building models
- Interpreting models

- Building models
- Interpreting models
- Making decisions under uncertainty

- Building models
- Interpreting models

 Making
 PAA says: Your presentation is too long. I have deleted the remaining 17 challenges.

rtainty

Solution Methods

Exploit social media to build models

- Facebook apps
- Wikipedia

Semantic workflows

Decision theory

- Bayesian networks
- (PO)MDPs

How do we deal with naive users?

- How do we deal with naive users?
- How do we quantify savings to user?

How do we deal with naive users?

How do

o user?

PAA says: Your slides are too boring. I have inserted a picture of a sock monkey.

Thank You



http://www.cs.cmu.edu/paa-2010/