Pedagogical Virtual Agents

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Explain
Teach
Help
Animated interface agents
knowledge based learning environments
animated pedagogical agents
Good. A slow onset suggests cancers, slow-growing infections, or benign growths such as fibroma.
TCP/IP
COSMO
The Internet Advisor
Welcome to
IP Address:
4.2.3.1
Herman the bug
increase communication between computer and student(s)
Lifelike
Believable
Natural appropriate behaviour
Interactive Demos
"Tell me and I'll forget; show me and I may remember; involve me and I'll understand."
Gaze and Gesture as Guides
Navigational guidance
Nonverbal Feedback
Virtual Teammates
Adaptive Pedagogical Reactions
5 clones

100 students
Pre-test
Agent interaction
Post-test
System/Agent Assessment
How entertaining was the educational programme?

Did Herman the Bug encourage you?

Did you believe Herman's advice?

Was Herman's advice useful to you?

How entertaining or boring was working with Herman?
Persona effect
Technical Issues
Representing & reasoning
Modelling & adapting
Choose strategies
Maintain dialogues
Awareness of Environment Affecting the Environment
Lights on!
Smooth movement
I'm selling these fine leather jackets.

Really?

Speech
Behaviour generation
All moveable parts can be moved separately
Biggest challenge:
Coherence at runtime
Tradeoff:

Flexibility - quality
Behaviour control
Find reaction

Plan action
Believability
Lifeness

Controlled Visual Impact

Complex behavioural patterns

Natural unobtrusive behaviour
Emotion
Sad
Happy
Fearful
Envious
Ashamed
show with body & face
Enormous promise
Persona effect
Thank you for your attention.

The persona effect: affective impact of animated pedagogical agents

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