

MIT9904-05 A Framework for Automation Using Networked Information Appliances Srinivas Devadas and Larry Rudolph Internet Coverview



- Targeting automation of many information-intensive tasks
- Automation requires the synergistic use of sensors, standard hardware interfaces, intelligent software and adaptive algorithms
  - Sensors provide audio, image, pressure or position input
  - Software controls actuators within appliances and also interface with other appliances
- We are building a framework that allows for rapid deployment of information-automation solutions



MIT9904-05 A Framework for Automation Using Networked

Information Appliances Srinivas Devadas and Larry Rudolph





## **Progress Through June 2000**

- Interface to speech server SLS-Lite to recognize specified set of voice commands
- Appliance Request Broker (ARB) infrastructure to provide a platform for networked information appliances
- Communication layer underneath the ARB based on digital RF to send information from one appliance to another
- Automation layer on top of the ARB to allow a script, i.e., a sequence of commands for appliances, to be easily written



MIT9904-05 A Framework for Automation Using Networked

Information Appliances Srinivas Devadas and Larry Rudolph





## **Research Plan for the Next Six Months**

- Create automation scripts that will sequence through specific combinations of commands to objects
  - Determine best route taking into account traffic conditions
  - Fast search for information across web-sites and databases