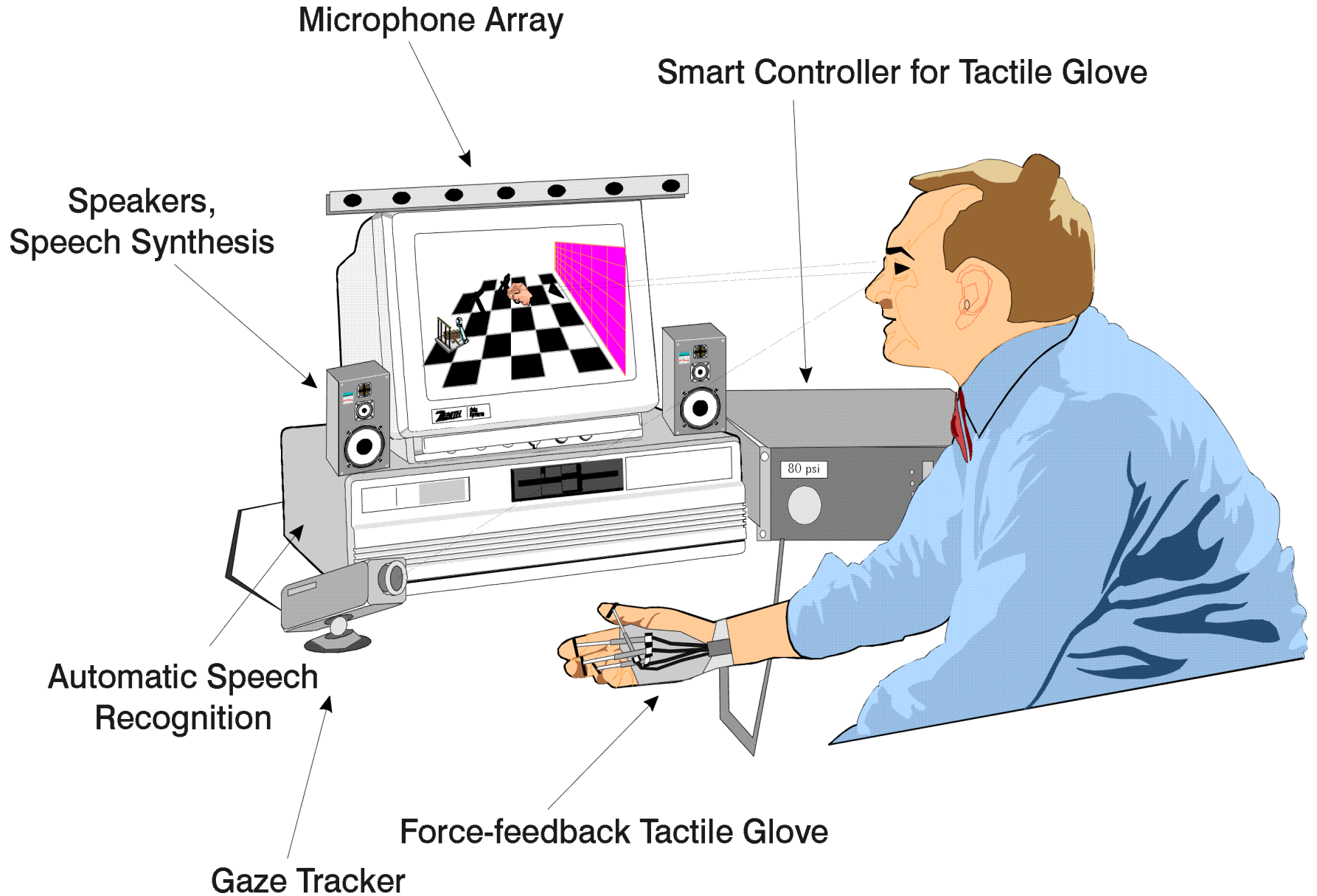


Multimodal User Interface Management

- Part of STIMULATE project at CAIP Center, Rutgers University
- PI: Dr. James L. Flanagan
- Research on natural human-computer interfaces for multimedia information systems
- Goal: establish, quantify and evaluate techniques for natural communication

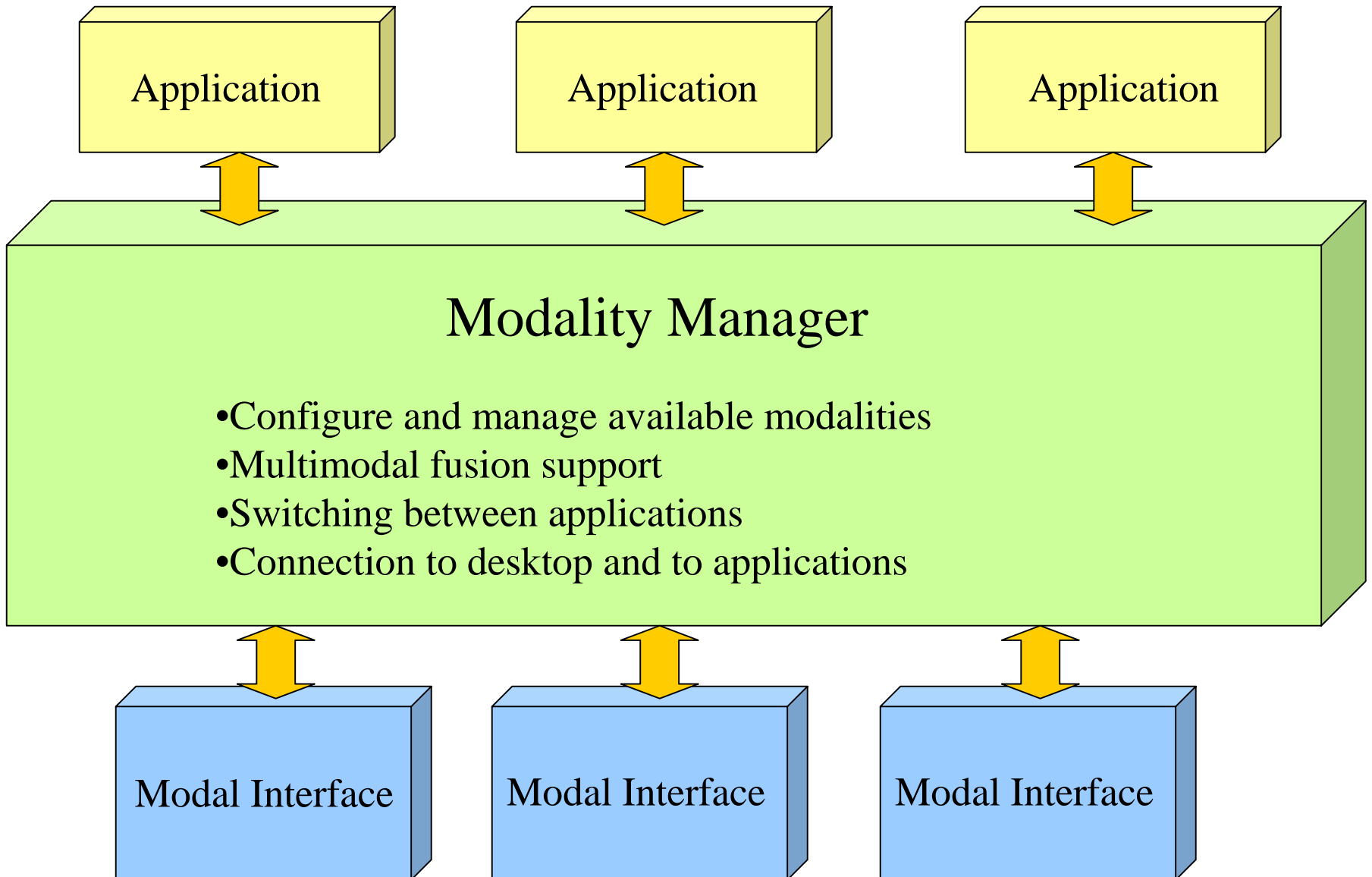
Multimodal Workstation Concept



Problems with the Multimodal Workstation

- *Communication with several different devices*
- Interpretation of input
- Presentation of output
- *Message routing and delivery*
- *Fusion of inputs from different devices*
- *Handling ambiguous and conflicting input*
- Understanding

Modality Management



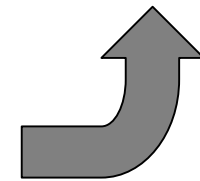
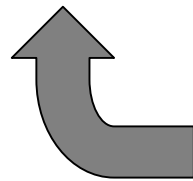
Platform Independence



Wired Multimodal Workstation



Wireless Wearable Computer



Applications

- Leukemia Diagnosis Support System
- Whiteboard
- 2D and 3D Mission Planning

