

## Artificial Intelligence and Robotics

**Automated Reasoning**

**Decision Support Systems**

**Remote Agents**

**Data Mining**

**Trajectory Planning**

**User Modeling**

**Model-based Systems**

**Planning & Procedural Reasoning**

**Logic Programming**

**Metareasoning**

**Telepresence**

## Training Technologies

**Intelligent Tutoring**

**Conventional & Embedded Training Delivery Techniques**

**Virtual Reality**

**Computer-based Training**

**High-fidelity Model Development**

**Adaptive Courseware**

## Computer Science and Information Systems

**Computer System Applications & Network Technologies**

**Information System Security**

**Fault-tolerant Distributed Computing**

**Software Design, Development & Testing**

**Real-time Systems**

**Legacy System Migration**

### **Space Vehicle Design and Modeling**

**Space Shuttle Orbiter Upgrades & Component Obsolescence**

**Flight Design Challenges**

**Space Shuttle and Space Station Engineering Models for Operations**

**Orbital Debris**

### **Flight Payloads and Experiments**

**University-sponsored Flight Experiments  
& Payloads for Space Station and Space Shuttle**