

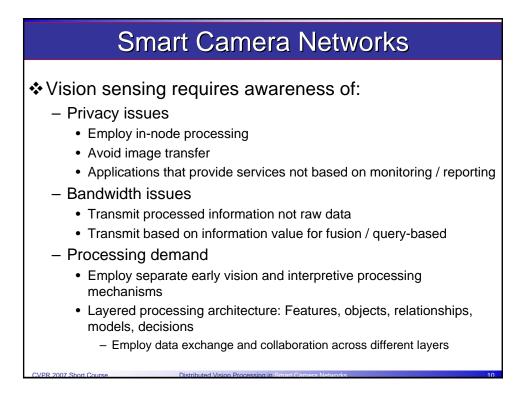
Smart Camera Networks *Rich design space utilizing concepts of:

- Vision processing
- Signal processing and optimization
- Wireless communications
- Networking
- Sensor networks

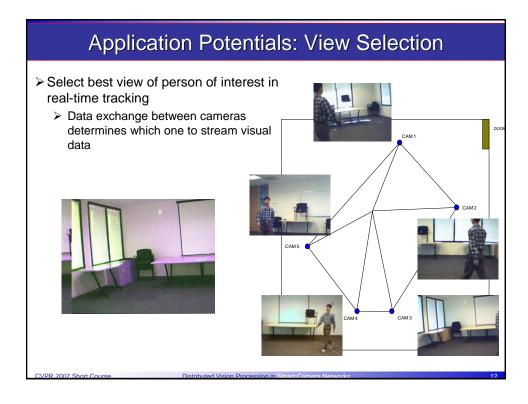
Novel smart environment applications:

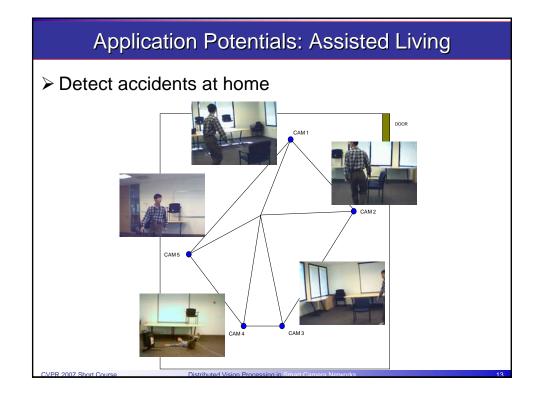
- Interpretive
- Context aware
- User centric

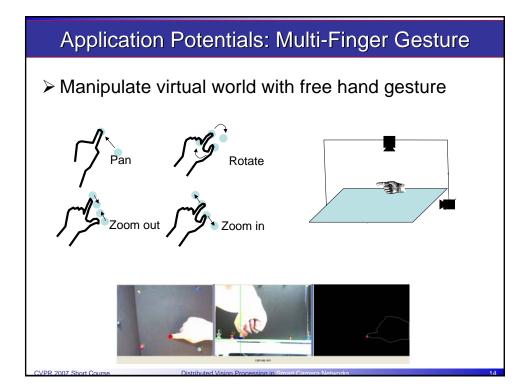
<section-header> Space Concession and source allows: Anage transfer avoidance Descriptive reports Scalable networks Scalable networks Processing architectures for real-time in-node processing Algorithms based on opportunistic data fusion Novel smart environment applications Balance of in-node and collaborative processing: Communication cost Latency Processing complexities Levels of data fusion

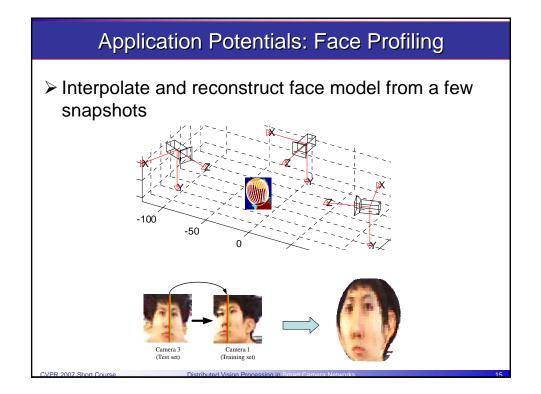


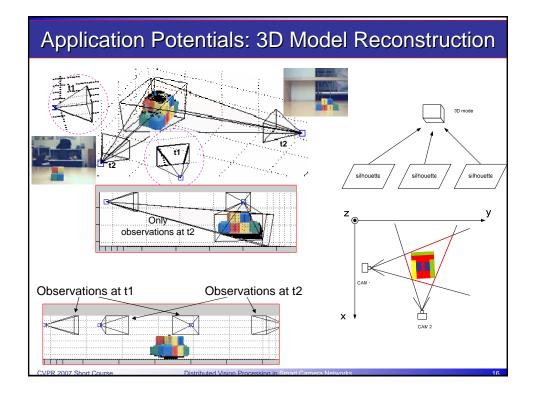


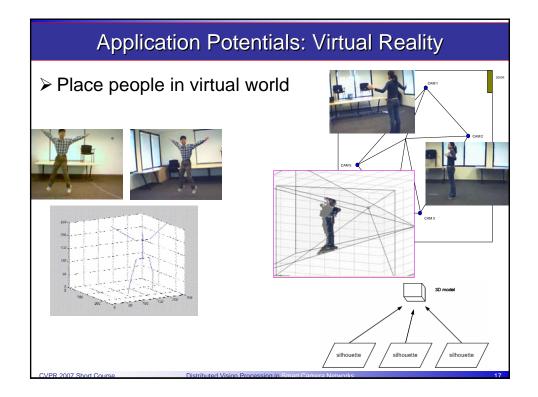














Outline

- I. Introduction
- II. Smart Camera Architectures
 - 1. Wireless Smart Camera
 - 2. Smart Camera for Active Vision
- III. Distributed Vision Algorithms
 - 1. Fusion Mechanisms
 - 2. Vision Network Algorithms
- IV. Requirements and Case Studies

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V. Outlook