

SeeMos Project

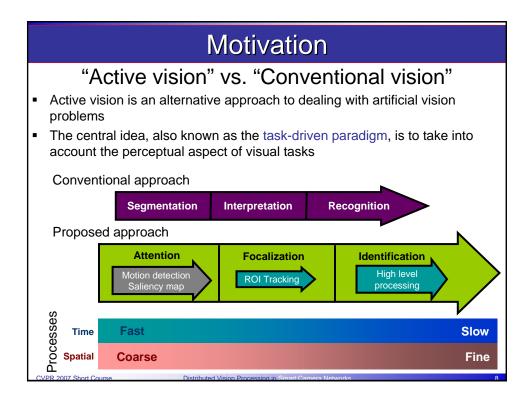
♦ Primary objective:

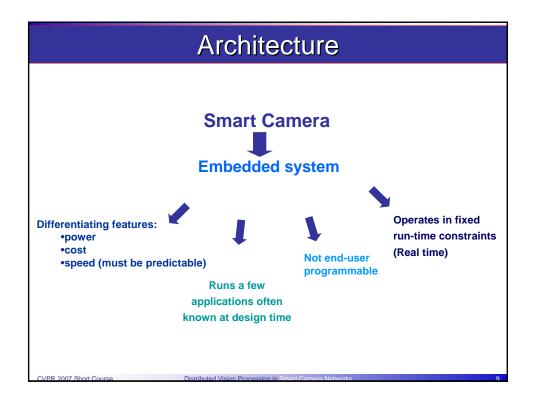
- A research platform dedicated to active vision
- > And in particular to the early vision process

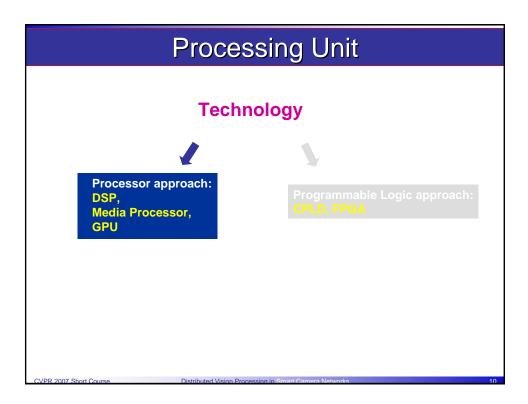
Architecture based on:

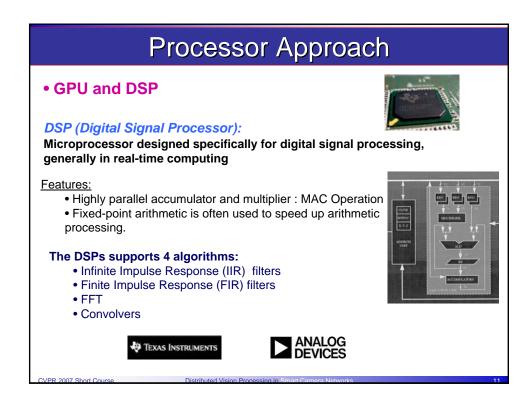
- FPGA
- CMOS imager
- Inertial devices
- High speed communication
- DSP-based co-designed board

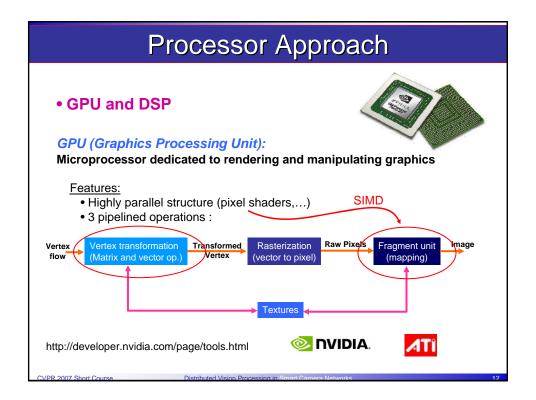
http://wwwlasmea.univ-bpclermont.fr/Personnel/Francois.Berry/seemos.htm

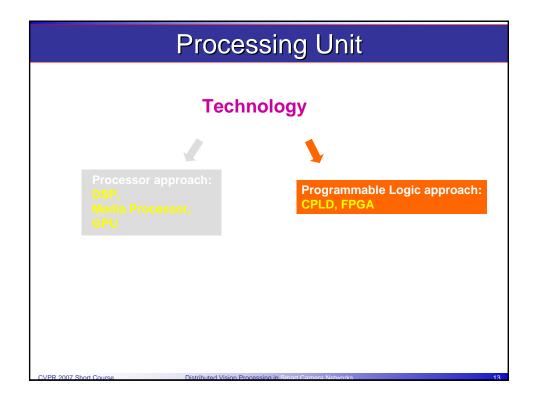


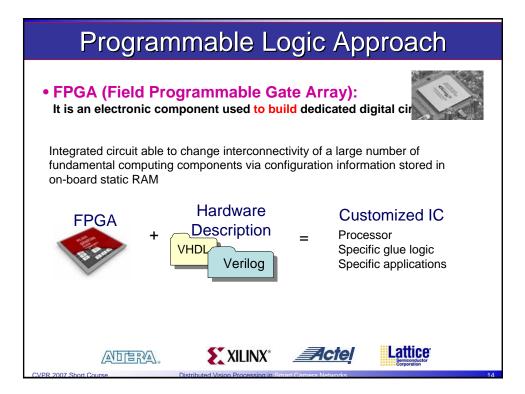


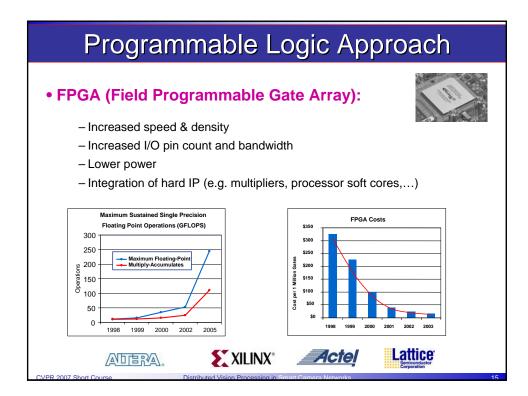


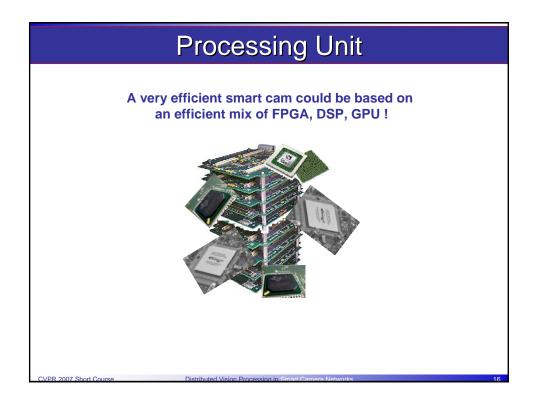


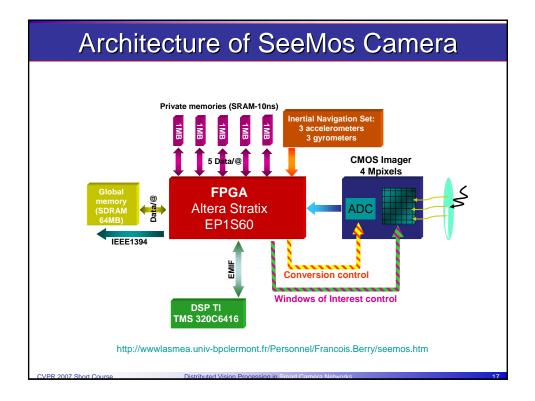




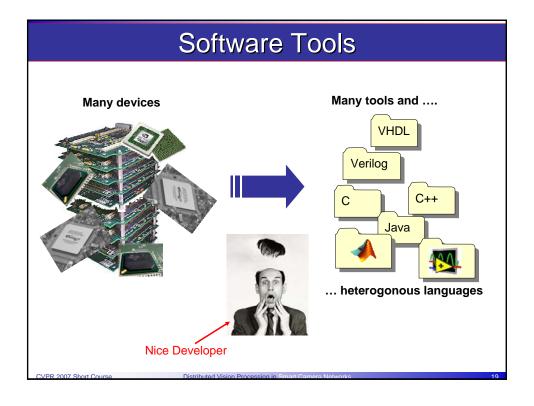


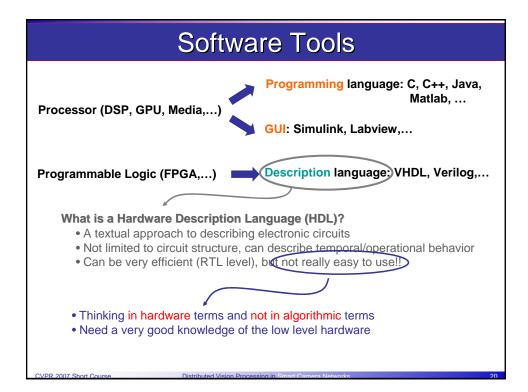


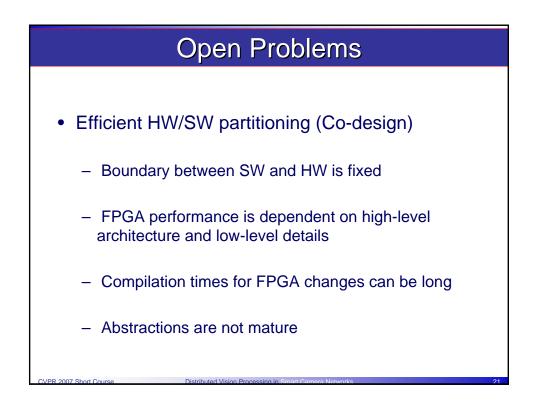


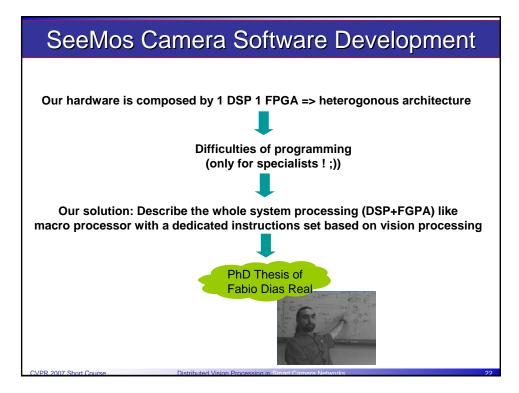


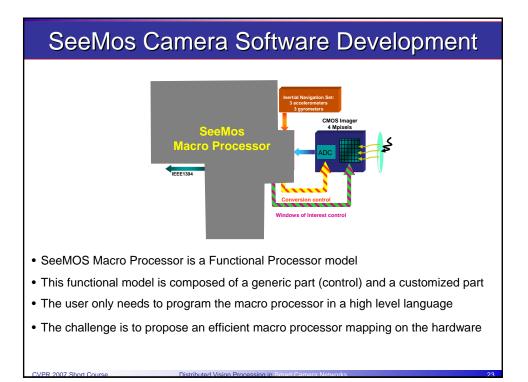


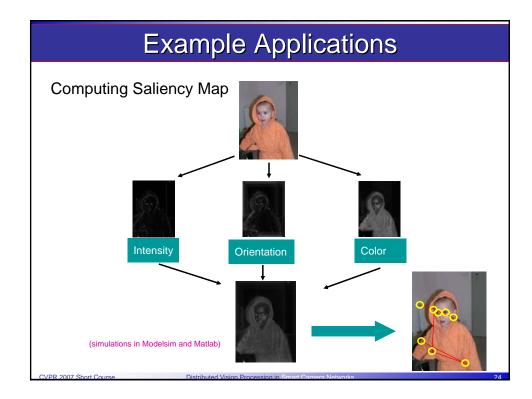


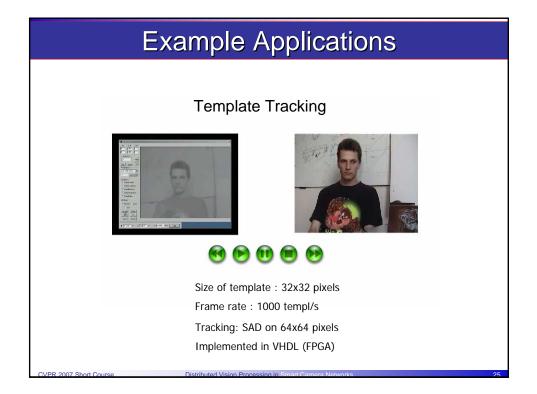


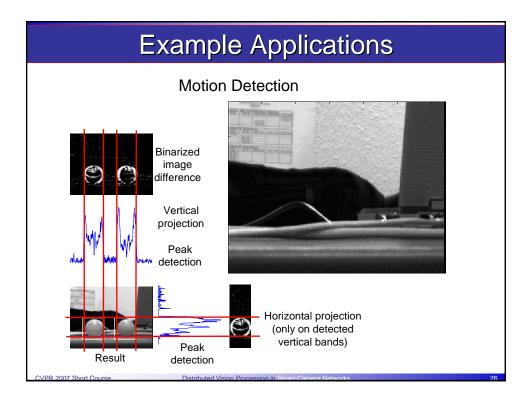












Conclusions

- Low-power smart wireless cameras can be designed with SIMD front-ends
- Wireless node opens research challenges for distributed camera networks
- Active vision capable architectures show interesting future capabilities



- 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
- V. Outlook