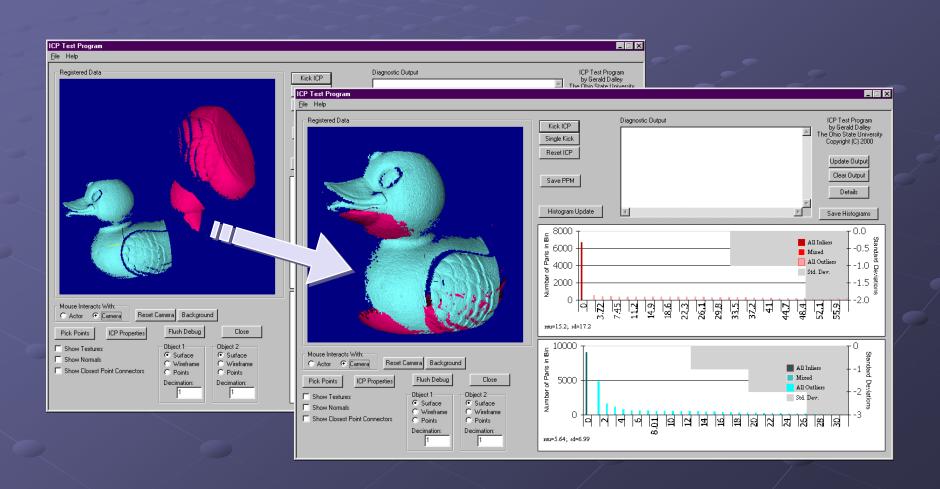
Monocular Group Meeting People Localization and Other Projects

By Gerald Dalley
MIT AI Lab Vision Retreat
14 January 2003

Overview

- Who Am I?
 - 1st year Ph.D. student in Eric Grimson's activity group
 - Past and Present Projects...
- People Localization
 - System design
 - Challenges

Who Am I: Past and Present Projects: Range Image Registration (B.S. @ OSU)



Who Am I: Past and Present Projects: Vehicle Recognition From Cluttered Range Images (M.S. @ OSU)



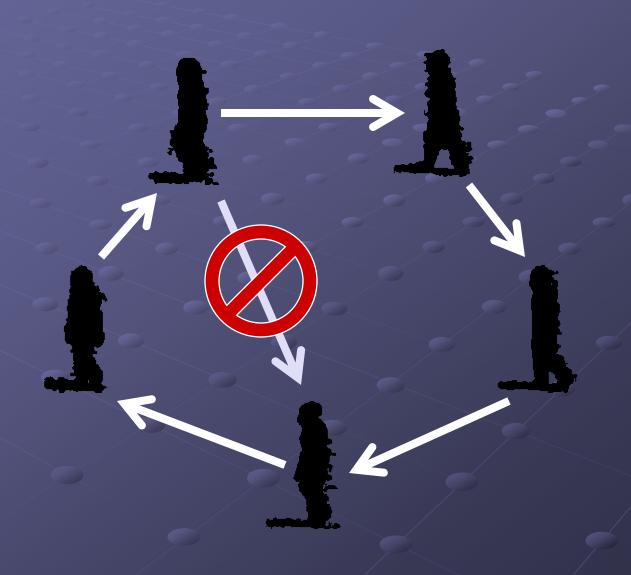
Who Am I: Past and Present Projects: Equations and Figures: Matlab, PowerPoint, Word, LATEX, and More (current)

- Making equations...
- Matlab figure tricks
- Embedding LaTeX in PowerPoint This is LATEX embedded

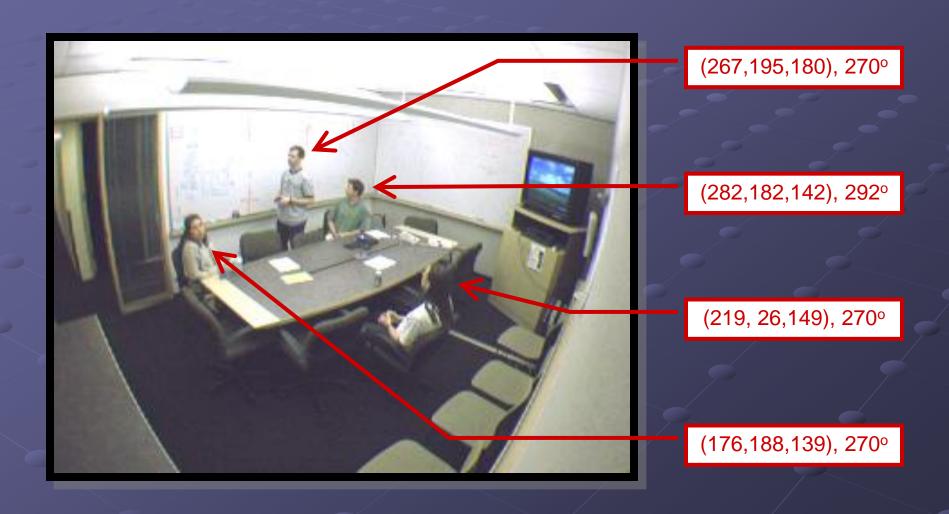
in PowerPoint
$$\left(\text{and } x = \int\limits_{-\infty}^{\infty} \alpha(t)dt\right)$$

Tell me about your problems (and/or solutions)

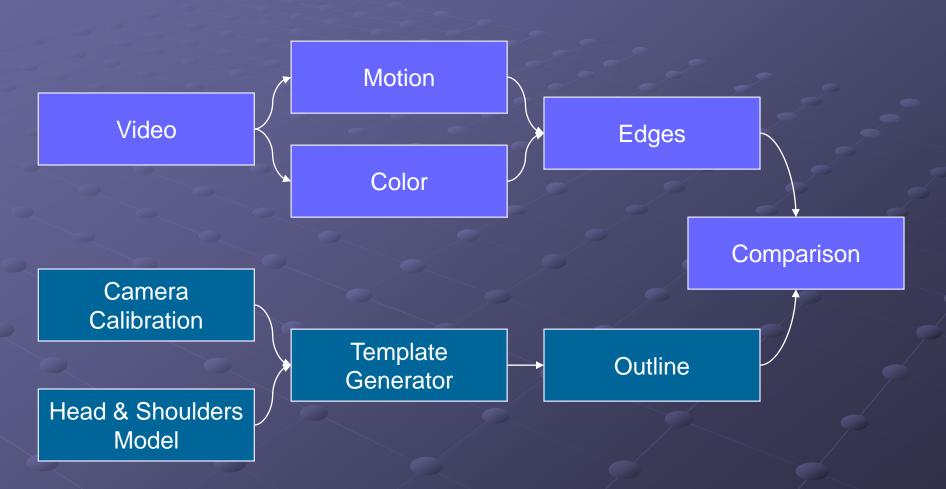
Who Am I: Past and Present Projects: HID Consistency Constraints (current)



Who Am I: Past and Present Projects: People Localization (Microsoft + MIT)



People Localization: System Design



Challenges

- Inherent challenges
 - No stereo
 - Widely-varying occlusion levels
 - Low contrast between walls and people
 - Scale
- Implementation challenges
 - Chamfer, Hausdorff, etc. distances have not been good discriminators yet