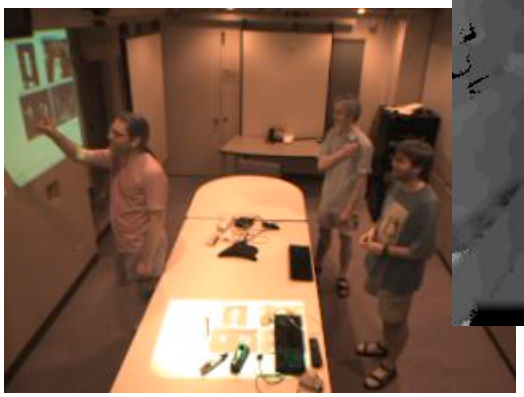
Trevor Darrell and Eric Grimson

Project Overview

Develop robust person tracking system

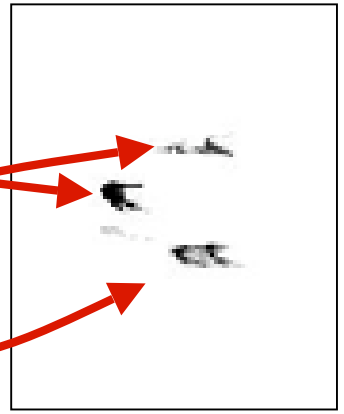
- Range can be insensitive to illumination.
- Compare range values to background.
- Integrate with NTT active-search recognition system.



Intensity

Range

Foreground



Plan view

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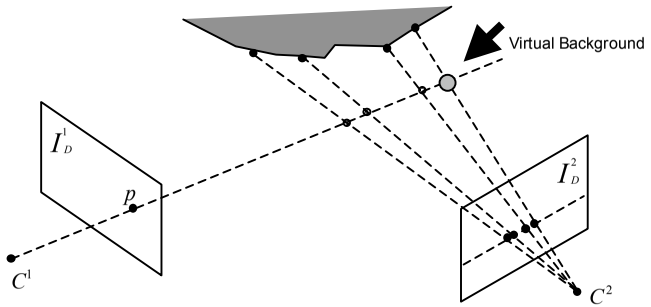
Progress Through June 2002

- Real-time version of range background algorithm.
- System brought to NTT in March 2002 by Dr. David Demirdjian



Infer virtual background values from other range views

- Integrated research system built using stereo tracking to follow multiple people, and NTT active search to recognize faces.

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Research Plan for the Next Six Months

- Audiovisual tracking with microphone array
- Face pose and articulated tracking
- Integrated Face and Gait recognition using stereo system