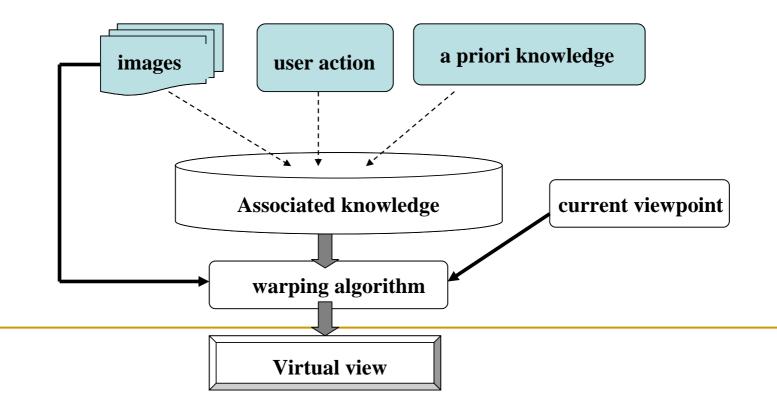
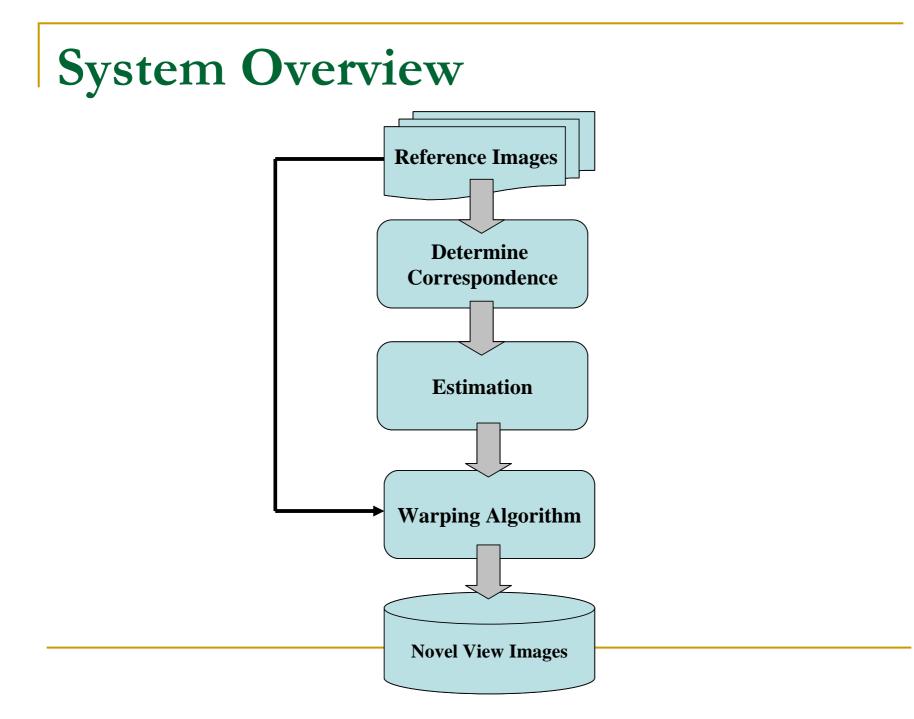
Introduction

- Model-Based Rendering : the computationally intensive process of acquiring a 3D model and the strong camera calibration
- The image-based approach represents an alternative to the model-based rendering

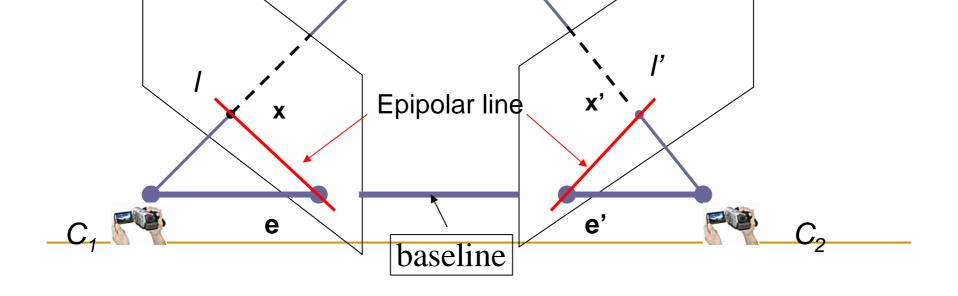




Two-View Geometry

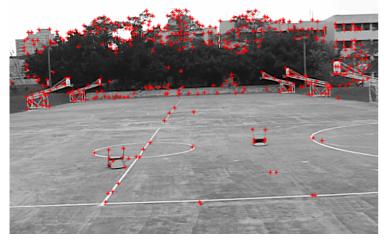
Epipolar Geometry

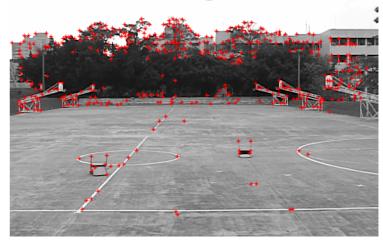
- The epipolar geometry is the intrinsic projective geometry between
 - two views, independent of scene structure, but depends on the X
 - camera's internal parameters and relative pose.



Determine Correspondences

Putative correspondences through NCC



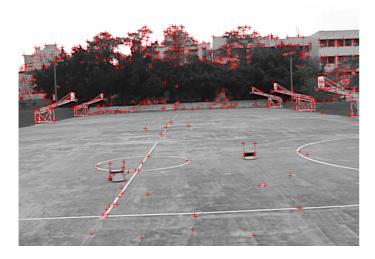


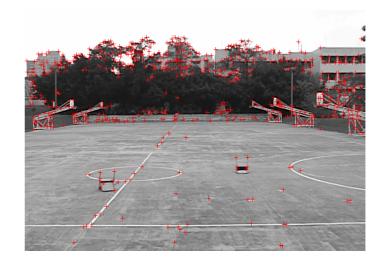
Correspondences through RANSAC

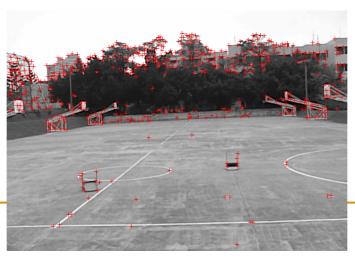




Determine Correspondences Corner Detector

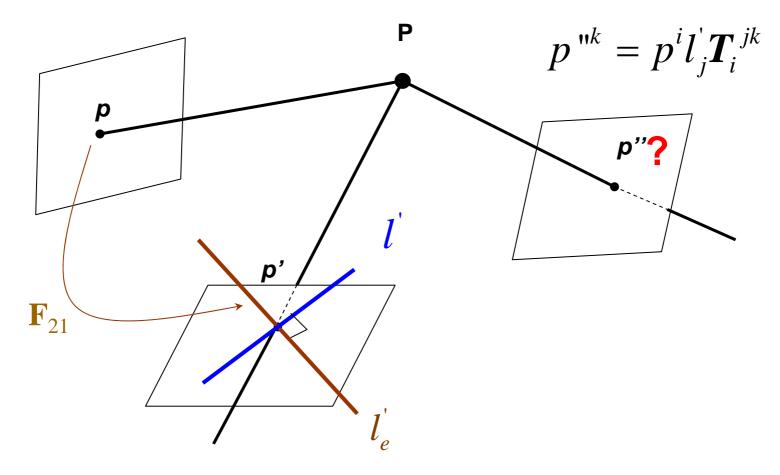






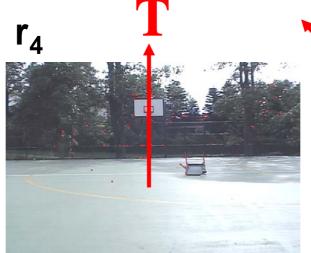
View Synthesis

Trifocal Transfer



Experimental Results







background

ield

reprojection

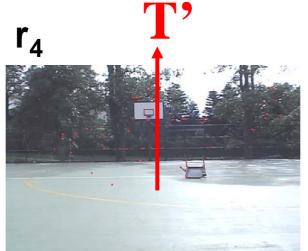






Experimental Results







background

ield

reprojection





Experimental Results Outdoor Environment



Views between r₃ and t₃

Views between r₃ and t₄

Experimental Results More complicated scene: View2







