Image Warping and Morphing

Lecture 7

Admin

- Here is feedback for Assignments 1 & 2
- Will post solutions after this class
- Assignment 3 out tomorrow will email list
- Projects: If you haven't come to see me about your project, please do so!



Best blending examples

• Marco







Best blending examples

• Merve





Admin

• Aloysha Efros (CMU) talk on Wednesday 11am – Next week's lecture will cover some of his work



• Title: Ask not "what is this?" but rather "what is this like?"

Outline

- Photo Tourism
- Seam Carving
- Morphing

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Photo Tourism: Exploring Photo Collections in 3D

Noah Snavely Steven M. Seitz University of Washington

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Pairwise feature matching

• Refine matching using RANSAC [Fischler & Bolles 1987] to estimate fundamental matrices between pairs







































































































































Image Morphing We know how to warp one image into the other, but how do we create a morphing sequence? 1. Create an intermediate shape (by interpolation) 2. Warp both images towards it 3. Cross-dissolve the colors in the newly warped images

Slide credit: Alyosha Efros





Intermission Video

• You Tube