2004: Poisson Matting
2004: Flash/No-Flash
2004: Flash/No-Flash
2004: Flash/No-Flash
2004: The non-photorealistic camera
2004: Colorization
2004: Colorization
2004: Colorization
2004: Colorization
2004: Colorization
2005: Color2Gray

http://www.cs.northwestern.edu/~ago820/color2grey/images.html
2005: Defocus Video Matting

Defocus Video Matting

papers_0312
2005: Automatic Photo Pop-up

Automatic Photo Pop-up

D. Hoiem  A.A. Efros  M. Hebert
Carnegie Mellon University
2005: Motion Magnification

Motion Magnification

Ce Liu
Antonio Torralba
William T. Freeman
Fredo Durand
Edward H. Adelson

Massachusetts Institute of Technology
Computer Science and Artificial Intelligence Laboratory

SIGGRAPH 2005
The 32nd International Conference on Computer Graphics and Interactive Techniques
2005: A New Camera

4D Light Field → 4D Fourier Transform → 2D Slice Extraction → Inverse 2D Fourier Transform → Photographs Focused At Different Depths
Dual Photography

Pradeep Sen*  Billy Chen*  Gaurav Garg*  Stephen R. Marschner†
Mark Horowitz*  Marc Levoy*  Hendrik P.A. Lensch*

*Stanford University  †Cornell University

SIGGRAPH 2005
2005: Camera Arrays

High Performance Imaging Using Large Arrays of Cameras

Online ID: papers_0440
2006: Drag and Drop

2006: Deblur
2006: Fluttered Shutter

http://web.media.mit.edu/~raskar/deblur/
2007: Scene Completion

Figure 1: Given an input image with a missing region, we use matching scenes from a large collection of photographs to complete the image.

- **Original Image**
- **Input**
- **Scene Matches**
- **Output**
2007: Photo-Clip Art
Soft Scissors

Soft Scissors: An Interactive Tool for Realtime High Quality Matting

Jue Wang, University of Washington
Maneesh Agrawala, University of California, Berkeley
Michael Cohen, Microsoft Research
2007: Seam Carving

https://www.youtube.com/watch?v=6NcIjXtLugc
2007: Multi-aperture
2007: Coded Aperture

http://groups.csail.mit.edu/graphics/CodedAperture/
2007: Gigapixel Images
2012: Video Magnification

https://www.youtube.com/watch?v=ONZcjs1Pjmk
2014: Visual Recovery of Sound

https://www.youtube.com/watch?v=FKXOucXB4a8