IP’16 Testing Cases

Table of Contents

[IMPORTANT NOTE 1](#_Toc470462837)

[First: Geometry and Pixel Operations 2](#_Toc470462838)

# IMPORTANT NOTE

In all of the following cases, each step (1, 2, 3...etc.) should be applied completely to the original image **NOT** to the previous step... while parts of each step should be incrementally applied.

## Example:

#### On Cat55

1. Resize to 1333 × 1000

Resize to 177 × 100

1. Increase contrast (Stretch the histogram)

This means that you should resize original Cat55 to 1333 × 1000, and then resize the result to 177 × 100. While increasing contrast should be applied to **the original Cat55**

# First: Geometry and Pixel Operations

|  |  |  |
| --- | --- | --- |
| Image(s) | Operations Sequences | Targeted Task(s) |
| Translate.bmp | 1. Translate in X by +150 2. Translate in X by -135 | 1. Translate with wrap |
| Cat55.bmp | 1. Resize by factor **4** in both dimensions   Resize by factor **0.5** in y and **0.3125** in x  Rotation by 30°  Shear in X direction by 0.45   1. **ALL:** Resize y-factor=**0.5,** x-factor=**0.3125**, Rotate 30° & Shear in X by 0.45 | 1. Reverse mapping 2. Scale 3. Rotation 4. Shear 5. ALL |
| bird.bmp | 1. Decrease RED brightness by 200   Decrease GREEN brightness by 200  Increase RED brightness by 50 | Brighten/darken one channel |
| Cat55 & Marbles | 1. Add 2 images (Fraction = 0.5) | Add & Subtract |
| Mask & Live | 1. Subtract 2 images |
| Gamma1 | 1. Gamma by 0.25 | Gamma |
| Gamma2 | 1. Gamma by 5 |
| ChessWarped | * Image Warping | Image warping |
| ClrCorrection1 & ClrCorrection2 | 1. Color correction with N = 3 2. Color correction with N = 100 | Color Correction |

**THANKS VERY MUCH FOR YOUR HUGE EFFORTS**

**☺ GOOD LUCK isA☺**