Digital Image Processing: Examination questions

J. Matas

January 17, 2003

1. Describe components of an image acquisition system.

2. What is the response of a sensor with given spectral sensitivity $r(\lambda)$ to incident light with spectral power distribution $I(\lambda)$?

3. Describe the monochromatic reflectance model.

4. Under the monochromatic reflectance model, how would RGB colours of a single pixel change if the light source moved?

5. Describe the dichromatic reflectance model.

6. Under the dichromatic reflectance model, how would RGB colours of a single pixel change if the light source moved? Draw a diagram in the RGB space.

7. Describe the Lambertian reflectance model.

8. Define specular/diffuse/surface/body reflection.

9. Can light be reflected diffusely by surface reflection?

10. Can light be reflected specularly by body reflection?

11. What are the advantages/disadvantages of the HSV (Hue–Saturation–Value) colour model?

12. In what application would you use a uniform colour space, such as Lab or Luv?

13. Write down the formula relating world and image coordinates of a point in 3D and its 2D projection. Assume a projective (pinhole) camera.

14. Compute parameters of a planar projective transfromation from 4 point correspondences.

15. Compute parameters of a planar affine transfromation from 3 point correspondences.

16. Compute parameters of the best (in the least-square sense) planar affine transfromation from $n > 3$ point correspondences.

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Thirumalaisamy P. Velavancorresponding

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