Sample Exam Questions – Module 4 Lectures 11-13

- 1. Describe the generic algorithm of the background subtraction technique.
- 2. In the MOG technique each pixel has an independent statistical process. Which are the main advantages of this?
- 3. Describe the aperture problem in the context of optical flow.
- 4. Explain the meaning of the optical flow constraint equation
- 5. Describe the feature tracking algorithm used to compute u, v
- 6. Which cues are mostly used in the object tracking procedures? Give a brief description of each one.
- 7. Propose an approach to remove the projective distortion from a perspective image of a plane.
- 8. In the context of projective transformations describe the application of the RANSAC RANdom SAmple Consensus algorithm.
- 9. Define vanishing points and vanishing lines.
- 10. Describe a method based on the vanishing points and vanishing lines to quantify 3D measurements.
- 11. Explain the epipolar geometry of 2 views.
- 12. Define epipolar line and epipoles.
- 13. Define the fundamental matrix F and explain a method to determine its elements.