

1996 Paper 13 Question 12

Computer Vision

Using appropriate mathematical expressions, define the following operations commonly used in computer vision and briefly explain their function and applications:

- (a) convolution [4 marks]
- (b) correlation [4 marks]
- (c) bandpass filtering [4 marks]
- (d) edge detection by second-derivative zero-crossings [4 marks]
- (e) invariant transform [4 marks]