

Filtering in the spatial domain (Continued)

Task 8.1 *Edge filter*

Definition: The virtual representation of an edge filter response is called an edge diagram.

- a) Which type of edge filter is known to you?
- b) What is the type of pattern for the filter response of an edge filter? Describe different methods to generate an edge diagram.
- c) Which possibilities exist to generate the rectified edge image?
- d) Implement the functions discussed in tasks b) und c). Generate both the edge image and rectified edge image.
- e) Apply the different edge filters on different images and interpret the results. Especially for the image *uni.bmp* which exist in different versions.