

Experimental study of some edge detection algorithms

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Abstract: This topic aims to research and test edge detection algorithms in the field of image processing, meeting the practical requirements for rapid border monitoring and recognition. Through a performance comparison of various algorithms, the topic will build an efficient edge detection system suitable for different environments. The research method combines theory and experimentation to ensure the accuracy and reliability of the system. The expected results will contribute significantly to improving the quality of border monitoring services, meeting increasingly high technical demands.

Keywords: Edge detection algorithm, Image processing, Border surveillance