

Various input noise	Total number of detected object	Wrong percent
0	795	0
0.01	583	5.31%
0.02	427	15.22%
0.04	184	45.10%
0.08	41	80.48%

Table 2. Result of vehicle detection based on various input noise

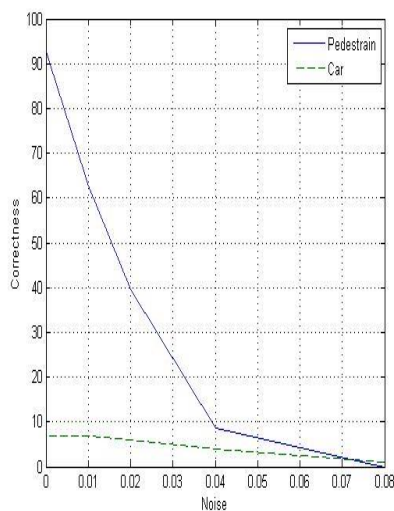


Figure 5. Comparison of various input noise with correct percentage of car and pedestrian detection

In this paper, by limiting the search space to specific location and creating a rectangle around each object, such as car and pedestrian in urban environments, part of the real challenges in computer vision has been explored. The introduced algorithm first detects moving objects automatically and then creates a rectangular area around each object. This method is designed with fixed cameras for intelligent monitoring systems. The results of object detection are more related to the resolution changes of images, especially when the amount of input noise has increased. Finally, it could be concluded that this method is more successful in an ideal day without any undesirable resolution condition.

5. REFERENCES

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