**Course Name: Computer Vision**

**Course Code: 19AI621**

**Course Advisor: Dr. Senthilkumar T**

**Title: Lane Detection for Autonomous Vehicles using Computer Vision Algorithm**

**Submitted By:**

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**Spatial Domain Operations on Case Study Image**

**Original Image:**

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**Image Smoothing**

#### **Average Filter**



#### **Weighted Average Filter**

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#### **Gaussian Blurring**



#### **Median Filter**

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#### **Image Sharpening**



#### **Roberts Filter**

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#### **Sobel Filter**

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#### **Gamma Transform**

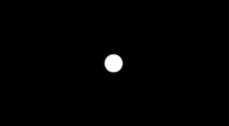


#### **Log Transform**

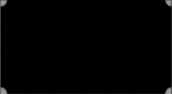


**Frequency Domain:**

* **Image After Applying Noise:**
* **Low Pass Filter:**

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* **Decentralized Image:**

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* **Processed Image:**

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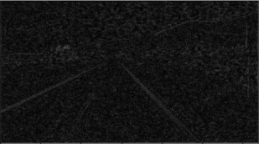
* **High Pass Filter:**

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* **Decentralize:**

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* **Processed Image:**

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