**VIDEO ENHANCEMENT USING SPATIAL FILTERING**

**ABSTRACT**

Video is the technology of electronically capturing, recording, processing, storing, transmitting, and reconstructing a sequence of still images representing scenes in motion. Digital video, and its associated technology, presents some significant advantages over analogical solutions mainly due to its potential and capability to become just another type of data that can be manipulated, stored and transmitted along with other types of digital data.

Noise is any undesired information that contaminates an video. Noise appears in videos from a variety of sources. In typical videos the noise can be modeled with a salt-and-pepper ("impulse”) distribution.

Noise is everywhere and thus we have to learn to live with it. Noise gets introduced into the data via any electrical system used for storage, transmission, and/or processing. In addition, nature will always plays a "noisy" trick or two with the data under observation.

When encountering a video corrupted with noise then it needs to improve its appearance for a specific application. The techniques applied are application-oriented. Also, the different procedures are related to the types of noise introduced to the video.

The enhanced process will be implementing by using MATLAB tool with GUI.