

## **ABSTRACT**

*Panic is a kind of anxiety with the characteristic of being attacked by extraordinary fear for a few minutes, the emergence of a feeling that something is going to happen, or an inability to control oneself even though there really isn't anything bad that really happened. A person can feel a strong physical sensation during a panic attack. The physical sensation may feel like running fast or having a heart attack.*

*The current surveillance system uses camera technology. A growing need for smarter video surveillance from private and public spaces using intelligent vision systems that can distinguish what is semantically important in the direction of human observers as panic behavior and normal behavior.*

*This final project designed a system to detect panic movements based on the speed of human footsteps. The method used for image processing in the system is frame difference. This system with the frame difference method succeeded in detecting panic based on human speed at a depression angle of 25o by using 100-250 Lux illumination in a straight motion position to get an accuracy of 71.43% and non-straight movements to get an accuracy of 85.71%.*

**Keyword :** *Panic Detection, Frame Difference, Object Detection*