**INFOIP Image Processing - Assignment 3**

## Part 1: Object to be detected: Playing Cards

Our object of choice is playing cards from a standard 52 card deck. The main goal will be to detect the cards themselves and therefore being able to count how many cards are in a given image. One of the possible refinements would be detecting the suit and rank of each card. We made this choice of object because playing cards appeared to be easy enough to detect in images with very little distractions and proportionally harder the more noise and distractions you add. Furthermore the challenge of detecting rank and suit seemed appropriate as an refinement option

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| **Criterium** | **Possible Values** |
| Minimum/Maximum size | All images are of size < 600x600, object size varies and doesn’t need to be defined |
| Lighting variations | Indoors, Artificial Light, No direct sunlight |
| Rotation variations | All possible rotations, front facing up |
| Occlusion | No occlusion, partial occlusion |
| Other | Only background noise, cards may be viewed from an angle, no white backgrounds |

## Part 2: Pipeline

-Phase 1

In the first phase of our pipeline create two output images from the given input. Number 1 is a threshheld

## Part 3: