

Public Abstract

First Name:Ghadeer

Middle Name:Hikmat

Last Name:Shaaya

Adviser's First Name:Tony

Adviser's Last Name:Han

Co-Adviser's First Name:

Co-Adviser's Last Name:

Graduation Term:FS 2012

Department:Computer Engineering

Degree:MS

Title:People Re-identification in a Camera Network

As a result of the emergent need for an intelligent system capable of analyzing human behavior, computer vision researchers have focused their efforts toward applications that offer automated video surveillance. Since such systems are used to guarantee the safety of people and places of interest (i.e. airports, metro stations, governmental institutes), developing security systems for detection and intervention is becoming an important necessity against the threats of terrorism or vandalism of property. In this work, we proposed an algorithm that is able to re-identify people in a camera network. Camera networks are used to cover large areas using multiple cameras. The main task of the algorithm is to find the path of the person of interest, the places are visited by this individual. We used colors and textures to help us building this algorithm. The results found to be promising, 82% accuracy and many suggestions to improve it further.