Some Problems: Missing and Found

- Every year millions of Pilgrims arrive to the KSA to perform the holy rituals of Hajj and Umrah.
- One great challenge is the huge number of missing and found items due to over-crowded or unexpected lost.
- The second challenge is the huge number of missing persons and unidentified deaths every year due to effects of the huge crowds.

Some Problems: Human Activity Recognition

- Stealing Items or People
- Setting in not permissible areas
- Praying or Reading the Holy Quran in sidewalks
- Sleeping
- Eating
- Shaving hair
- Doing Ablution
- Fighting to Kissing Black Stone
Objective

• An efficient monitoring system is essential to provide means of tracking missing and found individuals, items, and identifying them in order to take the necessary actions.
• An online system for human activity recognition inside and outside El-Harram

Missing and Found Problem (MFHAJJ)

• People wait in long rows to look for their missing items
• Valuable missing items (phones, gold, passports, etc)
• Hassle to authorities due to this problem
• Hard to identify dead, missing and found people
• No online system to automatically look for missing and found items

MFHajj Missing and Found Web Portal

MFHajj system consists of
• A database to record all missing and found items.
• High performance computer server and search engine

MFHajj Missing and Found Web Portal

MFHajj system consists of
• A database to record all missing and found items.
• High performance computer server and search engine
Face Detection and Recognition

Hajj & Umrah Dataset

Face Detection and Recognition

Face Detection
Dataset is defined to model six different Hajj and Umrah ritual locations.
Publications & Results


- Hossam Zawbaa, Salah Aly, Adnan A. Gutub, A Ritual Location Classification System For Video Crowded Scenes, the IET Journal Image Processing (ISI Ranked), submitted, November 2012.


Publications & Results


- Salah Aly, Hajj And Umrah Dataset For Face Recognition And Detection to be submitted, December 2012.


Thank You

Questions?