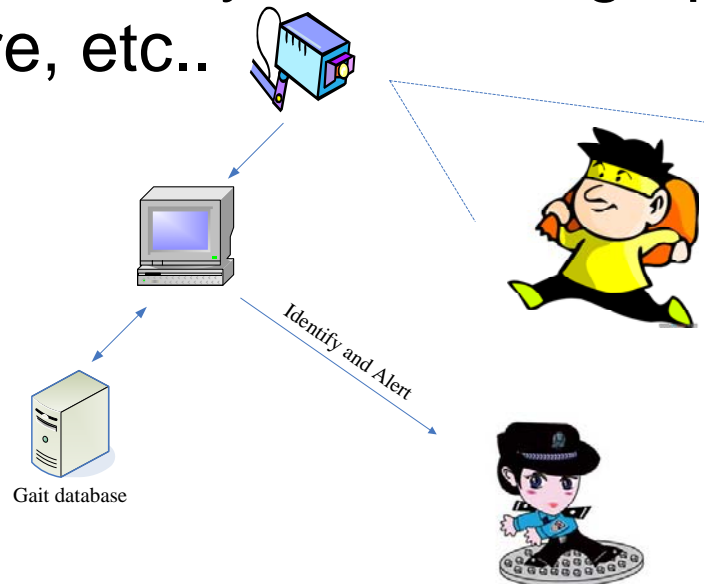
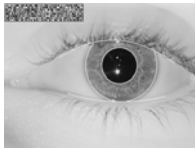


Introduction

- Human Identification related researches based on full range of multimodal surveillance technologies have become more popular for successfully detecting, classifying, and identifying humans to enhance the protection of facilities from terrorist attacks (911)
- Biometric features used currently include fingerprint, voice, iris, face, signature, etc..



The advantages of gait

- **Gait recognition:**

To discriminate individual by the way they walk

- **Uniqueness of gait:**

biomechanics: each person seems to have a **distinctive** way of walking.

- **Unobtrusive of gait:**

avoid physical touch and do not require proximal sensing

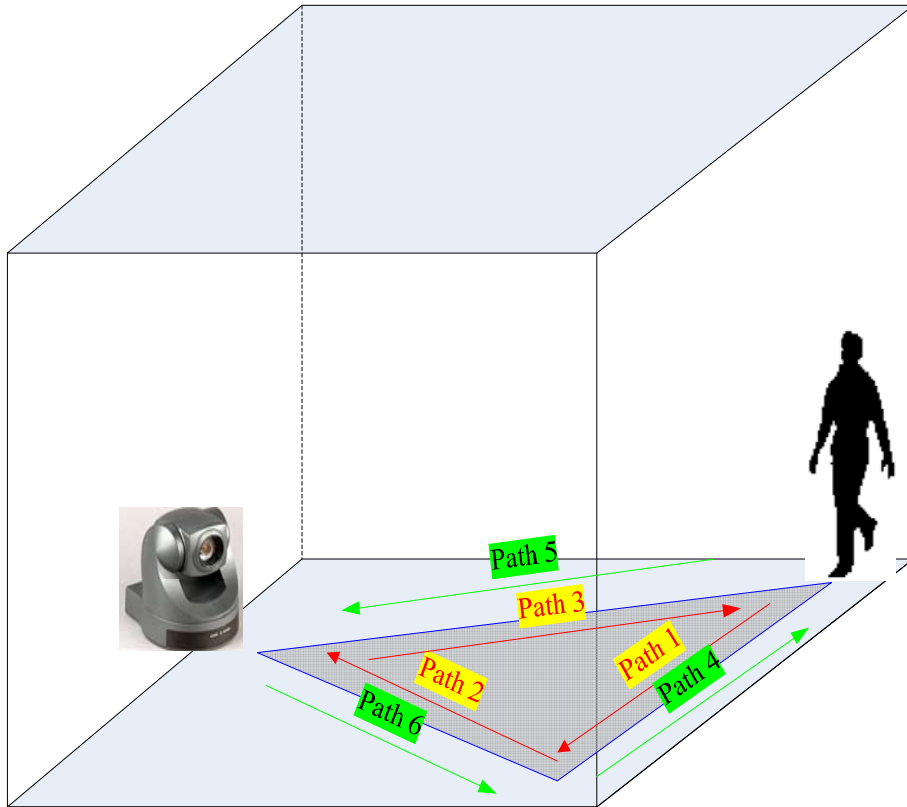
- **Recognition at a Distance**

fingerprint, voice, iris, face are hardly applicable at a distance

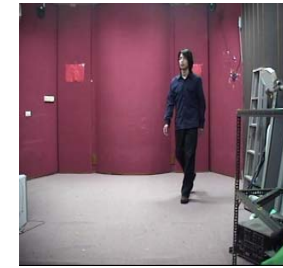
- gait is difficult to hide



The walking paths in the experiments



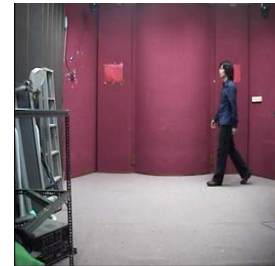
Path 1



Path 2



Path 3



Path 4



Path 5



Path 6