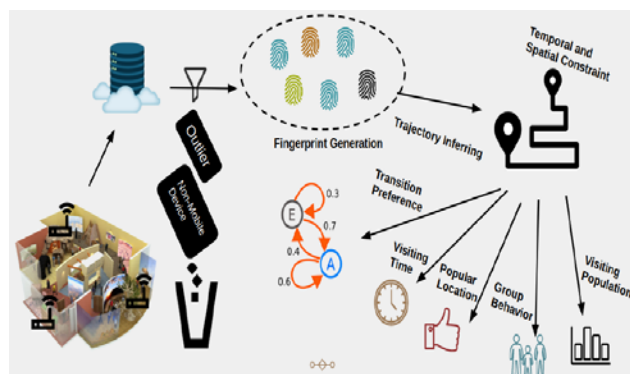# Crowd Monitoring Solutions

Understanding how crowd movement has been one of the focuses for achieving smart nation. SocialProbe helps to monitor visitor movement in multi-floor indoor buildings using opportunistic (WiFi) probe request frames sent by mobile devices. The monitoring is performed only by the WiFi Access Points with no impact on the operations of existing infrastructure. SocialProbe is able to discover visitor walking trajectories, movement pattern, temporal feature and grouping behavior.

Features

- Get crowd information in a non-invasive manner with passive probe request monitoring
- Location inferring with WiFi RSS fingerprint
- Group detection based on co-location event
- Enable monitoring of large crowd with minimum effort

Applications

- Analyze customer moving preference in shopping mall
- Identify social depression in elder care home
- Crowd density distribution in public areas
- Analyze crowd reaction in the emergency situation

Benefits

- Low cost and ease of deployment
- No impact on existing WiFi network
- Real Time crowd monitoring and historical data replay
- Web-based interface for visualization