**INTRODUCTION**

- Do you take live photos in group setting?

- Are you happy with the representative image selected for that live photo?

**What is a Representative Image?**
- Thumbnail selected based on array of images
- What you see when live picture is not running
- User can manually change the representative image

**METHODOLOGY**

- **Gaze Aware Group Representative Image (GARGI)** is defined as the aesthetically better representative key image for a live photo that has the least Gaze Deviation Index (GDI)
- **GDI** is a measure of cumulative deviation (GDC) of the gaze for all the subjects in a group live photo with respect to the Expected Collective Gaze (ECG)
- **GDC** is the measure of gaze deviation for individual subject in a frame
- **ECG** is the collective gaze direction where all the subjects in a live group photo were expected or intended to look

**RESULTS**

**DATASET**

- Self Curated Live Photo Dataset
- IRB Exempt
- Face count ranges from 1 to 6

<table>
<thead>
<tr>
<th># Faces</th>
<th># Live Images</th>
<th># Frames</th>
<th>Avg. # Frames</th>
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<td>6</td>
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<td><strong>21958</strong></td>
<td><strong>88</strong></td>
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**EXAMPLES**

- (a) Frame 0
- (b) Frame 44
- (c) Frame 88
- (d) Key photo by Apple
- (e) GARGI

- (a) 2 subjects: Apple’s key Photo
- (b) 3 subjects: Apple’s key Photo
- (d) 2 subjects: GARGI
- (e) 3 subjects: GARGI