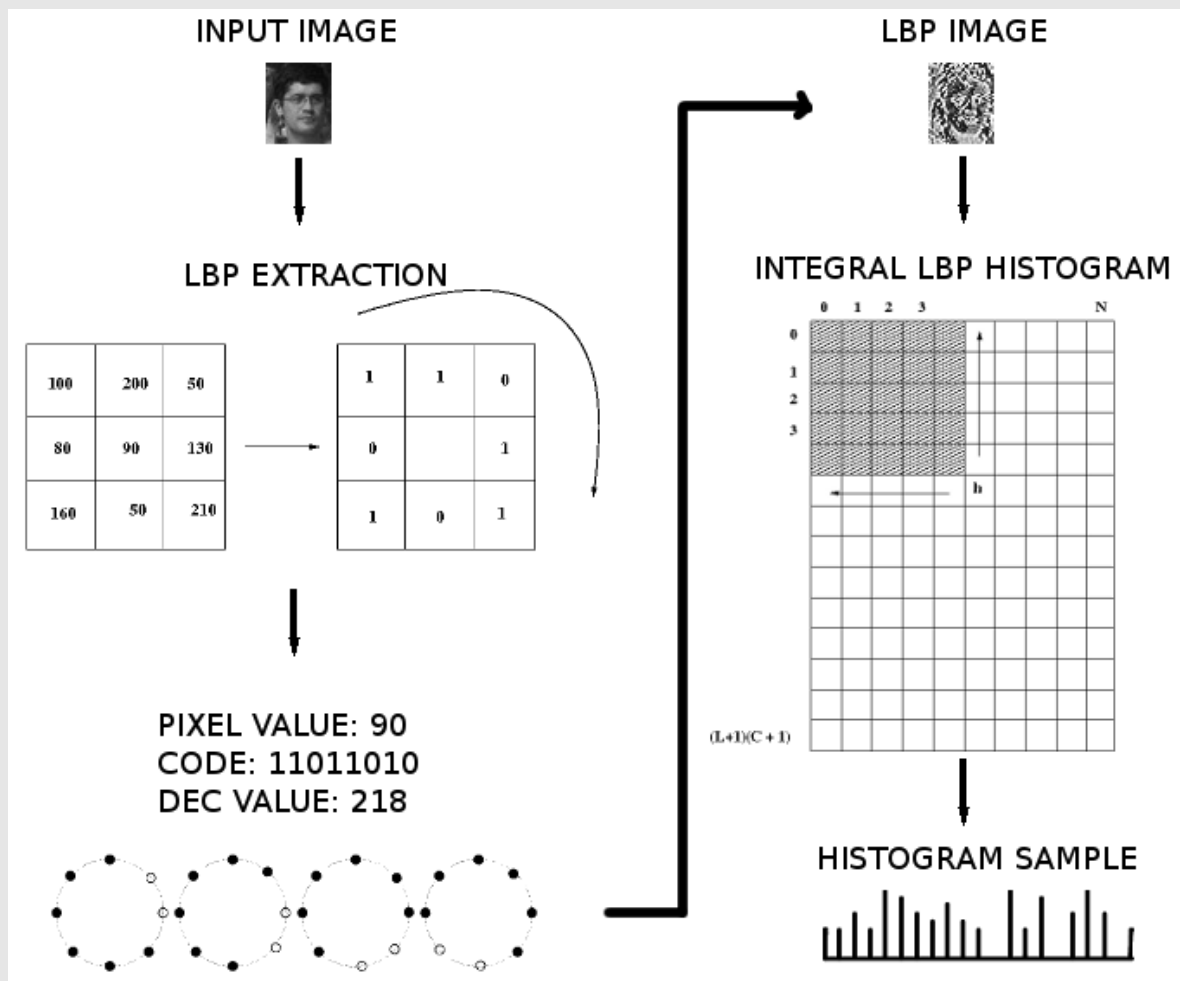


Integral Local Binary Patterns: a Novel Approach Suitable for Texture-Based Object Detection Tasks

Eanes Torres Pereira, Herman Martins Gomes and João Marques de Carvalho
 Universidade Federal de Campina Grande

Proposed Approach (INTLBP)

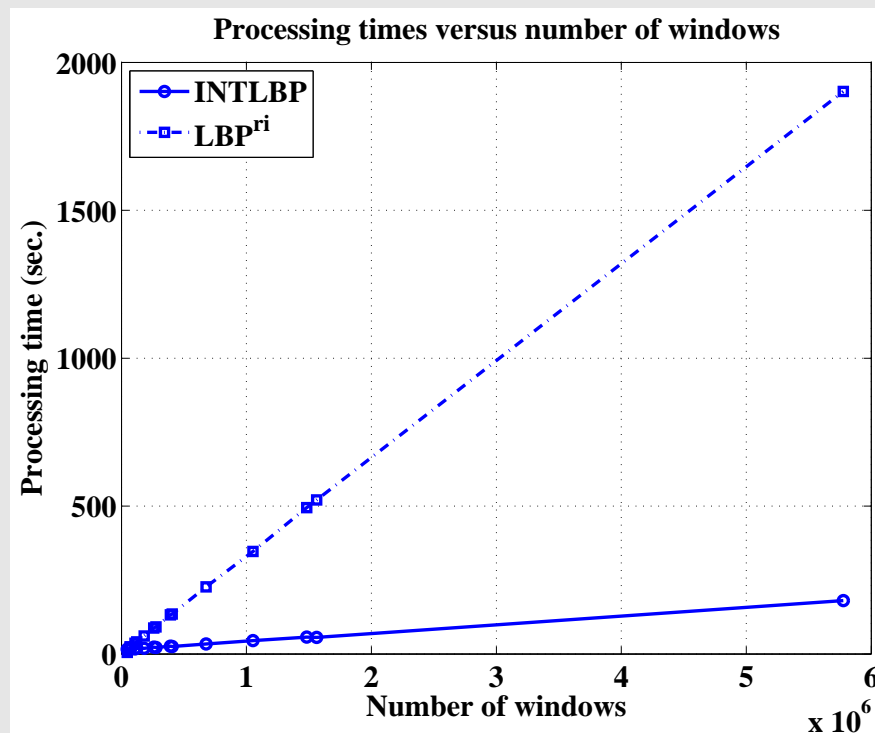


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Some Results

| Training face size | F-Measure (%) | |
|--------------------|---------------|-------------------|
| | INTLBP | LBP ^{ri} |
| 232 × 280 | 59.76 | 58.80 |
| 116 × 140 | 72.95 | 69.94 |
| 58 × 70 | 81.72 | 38.32 |
| 29 × 35 | 37.08 | 24.70 |





On the Design and Evaluation of a Precise Scalable Fiducial Marker Framework

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Daniel B. de Mesquita (UFMG)

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Fiducial Markers

- Visual features attached to world objects, robots, etc.
- Recovery of subject's position, orientation & identification

Uncolored (black/white) markers

- Only 4 features (corners) to extract full 3D pose → Sensitive to noise
- Changes of illumination intensity may compromise correct border detection

Colored blobs

- Require prior color calibration
- Sensitive to illumination changes
- Low accuracy
- Hard to extract full 3D pose

Proposed color markers



- Luminance channel: Localization → Accurate 3D pose recovery
- Saturation channel: Identification → 10,000s of distinct markers / error detection+correction
- Easy separation of black/white, saturated/unsaturated colors → No precise color calibration needed

Violence Detection in Video Using Spatio-Temporal Features



Violence Detection in Video Using Spatio-Temporal Features

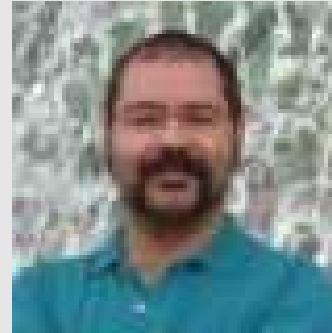
Fillipe



Guillermo



Eduardo



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