**In-Bed Patient Motion and Pose Analysis Using Depth Videos for Pressure Ulcer Prevention**

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**Goal:** Depth-based computer vision system for patient motion, pose analysis, and pressure ulcer prevention.

Determine whether a mobility-compromised patient has been correctly repositioned at a required frequency (every 2 to 4 hours) or not.

**System Setup**

- **Web DB Portal**
- **GUI Front-end**
- **Experimental Results**
  - Patient 14
  - Patient 20
  - Patient 21

**Features:**

- Depth sensing, live processing to mitigate privacy concerns
- Web portal for DB / decision support
- 24/7, long hours of monitoring

**Conclusions**

- Live video analytic system for pressure ulcer prevention
- Easy deployable for use in hospitals, clinics, and home environments
- Telehealth support

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