

Pressure Sensor Array System for Sleep Posture Recognition

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A Medical Alert and Health Monitoring System



Pressure Sensors on the Bed to Recognize Different Sleep Postures



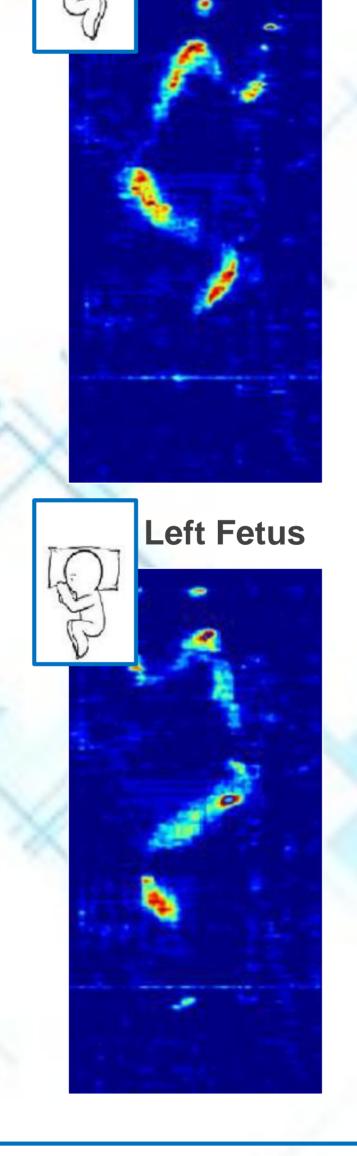


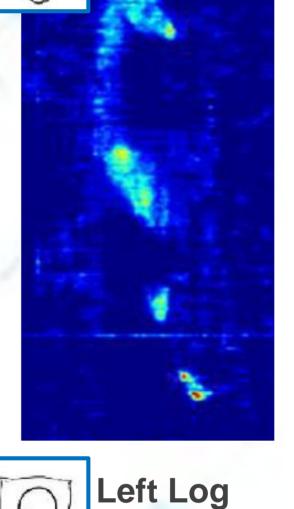


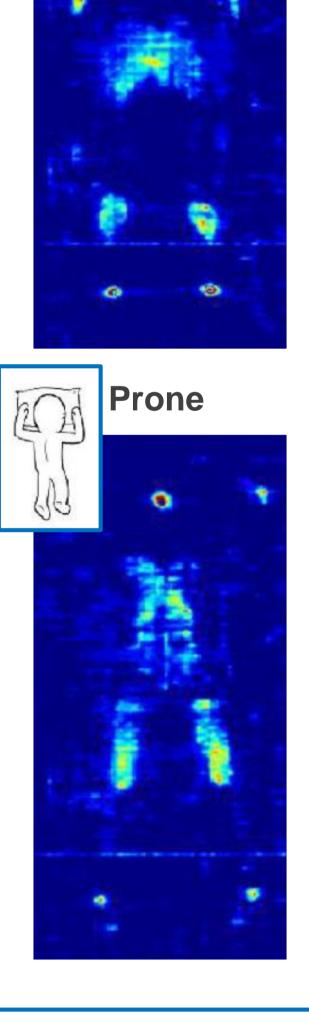
• Used for Clinical Applications

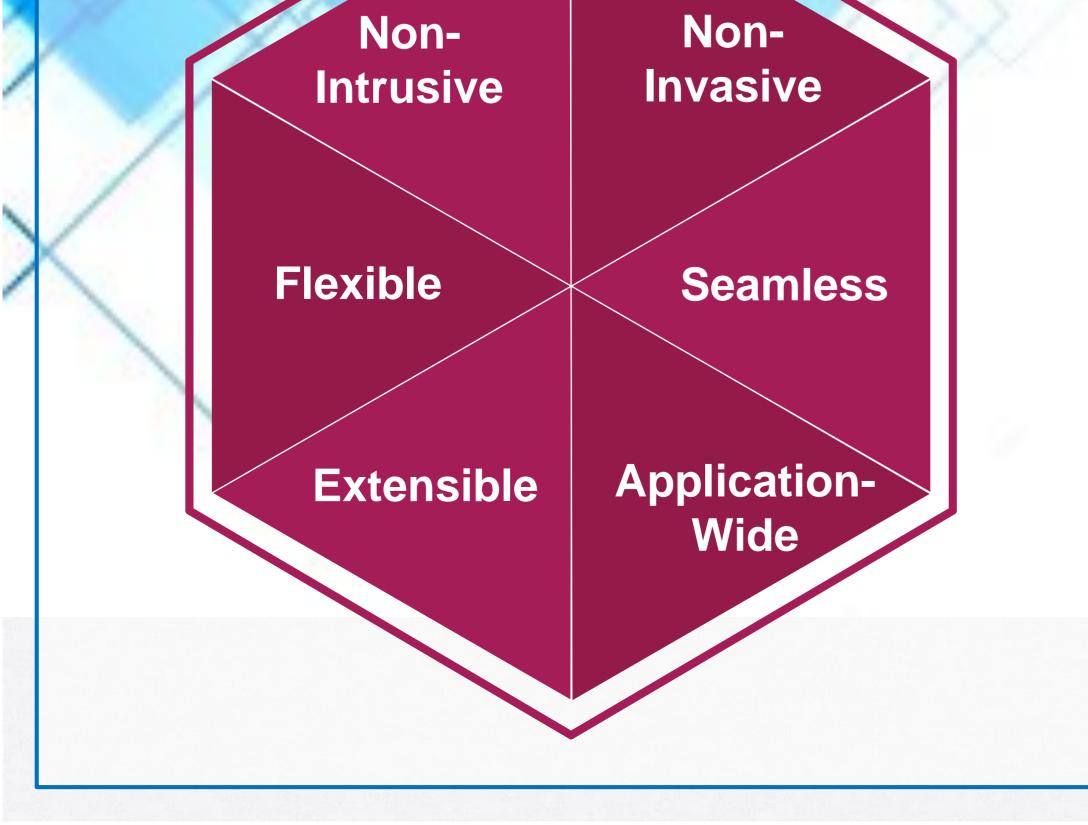
- Bed fall detection
- Pressure ulcer prevention
- Respiration analysis
- Anthropometric analysis
- Telehealth monitoring

• Why using Pressure Sensor Array?

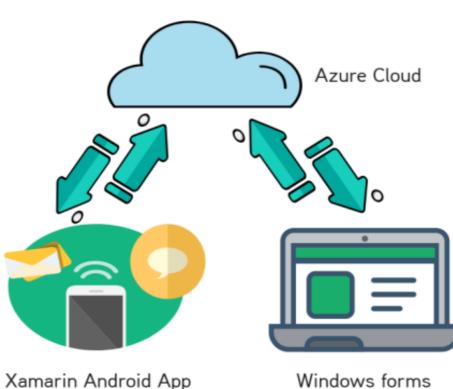








Other Application: Cloud Based Fall Detector



The laptop obtains pressure values from Smart Mat and constructs image. The image is processed to differentiate postures. If fall detected, SMS and Email alerts are sent to mobile phone. User is able to view the fall event or control the processing event on the mat via Android Application



Smart Mat

