

With the increasing demand for compactness, comfort, accuracy, and other features in new medical monitoring devices, the development of wearable optical fiber sensors is increasingly ...

Background: In the last ten years, the design and implementation of Optical Fiber Sensors (OFS) in biomedical applications have been discussed, with a focus on different subareas, such as...

In , this work describes the evaluation of a wearable plastic optical fiber (POF) sensor for monitoring seated spinal posture, in contrast to a conventional expert visual analysis, and the ...

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Real-Time Human Posture Recognition Using Embedded Optical Fiber Sensors and Machine Learning
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Hence, a wearable, embedded asymmetric color-blocked optical fiber sensor based on a hydrogel has been developed. Its sensing principle is grounded in the total internal reflection within ...

In this paper, we presents a microsphere-based fiber-optic sensor array designed for sitting posture monitoring. The sensor features a hollow-core fiber with silica walls forming an air cavity, enabling ...

The development of a noninvasive optical fiber sensor (OFS) architecture adaptable to a shoe sole for plantar pressure remote monitoring, suitable to be integrated in an IoT e-Health ...

In this sense, this work proposes to remodel a typical optical fiber FMG sensor with smaller portable components. Moreover, all data acquisition and processing routines were migrated to a Raspberry Pi ...



Fiber Optic Sensors for Posture Monitoring

Web: <https://maxtools.co.za>

