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Inertial Measurement Units (IMUs) are frequently implemented in wearable devices. Thanks to advances in signal processing and machine learning, applications of IMUs are not limited to those explicitly ...

### **Chest-Worn Inertial Sensors: A Survey of Applications and Methods.**

BioSig Technologies, Inc. (NASDAQ: BSGM) ("BioSig" or the "Company"), a medical technology company commercializing an innovative signal processing platform designed to improve signal fidelity and ...

### **BioSig Launches Enhanced Signal Processing Capabilities for Advanced Cardiac Signal Analysis Through its Electrophysiology Platform**

The field of image processing has been the subject of intensive research and development activities for several decades. This broad area encompasses topics such as image/video processing, image/video ...

### **Grand Challenges in Image Processing**

Army researchers developed a Deepfake detection method that will allow for the creation of state-of-the-art Soldier technology to support mission-essential tasks such as adversarial threat detection ...

### **Breakthrough technology is a game changer for deepfake detection**

COMSovereign Holding Corp. (NASDAQ: COMS) ("COMSovereign" or "Company"), a U.S.-based developer of 4G LTE Advanced and 5G Communication Systems and Solutions, today announced that it is acquiring ...

### **COMSovereign Expands Its Advanced Wireless Signal Processing Capabilities With The Acquisition Of Innovation Digital, LLC**

Army researchers developed a Deepfake detection method that will allow for the creation of state-of-the-art Soldier technology to ...

### **Breakthrough Army technology is a game changer for deepfake detection**

This article presents an overview of the advancements that have been made in the use of photoplethysmography (PPG) for unobtrusive sleep studies. PPG is included in the quickly evolving and very ...

### **Photoplethysmography in Normal and Pathological Sleep.**

Solar-blind ultraviolet (UV) photodetectors (PDs) have attracted tremendous attention in the environmental, industrial, military, and biological fields. As a representative III-nitride material, AlGaN ...

### **Progress on AlGaN-based solar-blind ultraviolet photodetectors and focal plane arrays**

Superhigh- $\epsilon$  materials that exhibit exceptionally high dielectric permittivity are recognized as potential candidates for a wide range of next-generation photonic and electronic devices. In general, ...

### **Development of ferroelectric nematic fluids with giant- $\epsilon$ dielectricity and nonlinear optical properties**

The fine-structured electrical spark is a complex gas discharge phenomenon, which appears as a cluster involving dozens of closely-packed thin plasma filaments that can be revealed by laser ...

### **Extraction of high-contrast diffraction patterns of fine-structured electrical sparks from laser shadowgrams**

Modular, open-design approach enables users to develop once, deploy everywhere Mercury's New Rappid Spectrum Processing Platform Mercury's new Rappid™ spectrum processing platform is an innovative, ...

### **Mercury Pioneers Ground-Breaking Rappid Application-Ready Spectrum Processing Platform to Support Full-Spectrum Superiority**

Amputation of the upper limb brings heavy burden to amputees, reduces their quality of life, and limits their performance in activities of daily life. The realization of natural control for

## **Gesture Recognition Using Surface Electromyography and Deep Learning for Prostheses Hand: State-of-the-Art, Challenges, and Future**

Meeting the Universe Halfway is an ambitious book with far-reaching implications for numerous fields in the natural sciences, social sciences, and humanities.

## **Meeting the Universe Halfway: Quantum Physics and the Entanglement of Matter and Meaning**

One of the major challenges of on-site partial discharge (PD) measurements is the recovery of PD signals from a noisy environment. The different sources of noise include thermal or resistor noise ...

## **Signal denoising techniques for partial discharge measurements**

An assistant professor in MSU's Department of Electrical and Computer Engineering is being recognized for his early career success and impactful research with a prestigious National Science Foundation ...

## **MSU's Gurbuz receives NSF CAREER award for research to advance smart sensing systems**

Despite major advances in our understanding of adaptive immunity and dendritic cells, consistent and durable responses to cancer vaccines remain elusive and active immunotherapy is still not an ...

## **A fresh look at tumor immunosurveillance and immunotherapy**

The Youtube channel of the Pacific Tsunami Warning Center posted an animated map showing every recorded earthquake and tsunami in sequence as they occurred from January 1, 1901, through December 31, ...

## **Animated World Map Shows 120 Years Of Earthquakes And Tsunamis**

Skid marks are often analyzed for their impression patterns, but

they don't provide enough information to identify a specific vehicle.

### **Skid Marks: Ending Hit-and-Run, Vehicle Violence**

Combining the Denali ISP with the new plug-and-play Xilinx starter kit affords developers access to real-time, high quality HDR video to fuel their artificial intelligence and computer vision

...

### **Pinnacle Imaging Systems™ Announces Denali™ 3.0 Soft ISP & HDR Sensor Module for New Xilinx Kria SOM Platform and Vision AI Starter Kit**

(NASDAQ: MRCY, a leader in trusted, secure mission-critical technologies for aerospace and defense, today announced the JTS0100 Jammer Training System, ideal for training radar and communications ...

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