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Highly Accessed Articles

Article Design of a Modularized IoT Multi-Functional Sensing System and Data Pipeline for Digital Twin-Oriented Real-Time Aircraft Structural Health Monitoring by Shengkai Guo et al.

Article A Federated Approach for Adaptive Urban Sound Classification on TinyML Edge Devices by Athanasios Trigkas et al.

Review Reinforcement Learning-Driven Autonomous Path Planning for Unmanned Surface Vehicles: Current Status, Challenges, and Future Prospects by Zexu Dong et al.

Article C-Axis Oriented LiNbO3 Thin Film Grown by Chemical Beam Epitaxy for Surface Acoustic Wave Device Applications by Nikolay Smagin et al.

Review Recent Developments and Applications of Drone Swarm: Techniques, Strategies, and Challenges by Ravi Raj and Andrzej Kos

Article Real-Time Lightweight Weld Seam Keypoint Detection and Tracking via an Improved SimCC with a Unified Three-Keypoint Formulation by Shenkuo Wang et al.

Article Depth Imaging Through Smoke Using Nonparametric Estimation for Array Gm-APD LIDAR by Yinbo Zhang, Qingyu Hou, Haoyan Wang, Boteng Zhang, Jialong Zhou and Jianfeng Sun

Article DUNI: A Portable Smartphone-Coupled Integrating Sphere for Controlled Illumination and Reliable Colorimetric Sensing: Analytical Applications by Pablo Cebrían, José Manuel Escuín, Jesús Salafranca, Carmen Jarne, Ángel López-Moliner, Susana de Marcos, Javier Galbán and Isabel Sanz-Vicente

Article Efficient Fall Detection from Wrist-Worn IMU Signals via Knowledge Distillation: A Lightweight CNN Approach Using the UMAFall Dataset by Ali Taheri, Mina Salehi and Jeong Ho Kim

Article Multi-Wavelength Machine Learning for High-Precision Colorimetric Sensing by Majid Aalizadeh, Chinmay Raut, Ali Tabatabaehfarahani and Xudong Fan

Article Benchmarking Time-Series Artificial Intelligence Architectures for Wearable Sensor-Based Fall Prediction: A Synthetic Data Simulation Framework by Edward R. Sykes, Mohammad Maghsoudimehrabani and Abdulrahman Al-Shanoon

Article Stability-Controlled Continual Federated Learning for Energy-Harvesting AIoT Systems by Junsoo Park, Ikjune Yoon and Dong Kun Noh

Article Abstract Energy-harvesting (EH) AIoT systems enable long-term autonomous operation but suffer from time-varying energy availability, which makes stable learning difficult.

Article Abstract In the field of traditional aging state evaluation of paper materials, traditional detection technologies such as ink drop method and chemical analysis have inherent limitations including sample damage, strong subjectivity, and inability to realize large-area detection.

Article Abstract Existing deep-learning-based motor imagery (MI) electroencephalogram (EEG) decoding methods face challenges in generalizing across sessions and providing channel-level physiological interpretability.

Article Abstract In satellite-denied environments, conventional localization methods struggle with rapid pose initialization due to the absence of global positioning data.

Article Abstract Driver drowsiness detection has become an important application of sensor-based monitoring systems aimed at improving road safety.

Article Abstract Accurate forecasting of oil well production via field monitoring systems is significantly restricted by a structural conflict in modeling, where temporal dependency learning and nonlinear feature representation are closely coupled.

Article Abstract The use of smartphones as analytical instruments is becoming increasingly widespread due to their ease of use and low cost.

Article Abstract Falls among older adults are a major contributor to morbidity and mortality among older adults, and timely fall detection can help reduce the severity of fall-related outcomes.

Article Abstract Falls among older adults are a major cause of injury and loss of independence, yet most existing systems detect falls only after onset or providing very limited warning time.



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Article A Pose Initialization Method for Unmanned Vehicles Based on an Improved Siamese Neural Network and Multi-Stage Probabilistic Registration Localization by Jian Yang, Biao Chen, Weiye Shen and Xiaobin Xu

Article Air-Coupled Ultrasonic Detection of Surface Roughening and Ink Wettability by Guangya Li

Review Sensing Technologies and Physiological Parameters for Real-Time Driver Drowsiness Detection: A Comprehensive Review by Lola El Sahmarany, Maryam Alkhalidi and Saleh I. Alzahrani

Article A Sensor-Aware Decoupled Learning Framework for Robust Multi-Scale Time-Series Forecasting in Oil Production Systems by Guojian Cheng, Wenhan Zhang, Zhonghui Jin and Lei Cai

Article Nonlinearity-Guided Dual-Spectrum Ultrasonic Inversion for Attenuation-Independent Characterization of Subwavelength Coatings by Lei Wang, Cong Wan, Jiacheng Wang, Jianlin Xu, Yongfeng Song and Maodan Yuan

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