



Fiber optic sensing technology dual-use military and civilian

Over our thirty-year history, Fiber SenSys has established experience in supporting military and government contracts, programs and projects, including GSA, Tactical Automated Security Systems ...

Operationalizing dual-sensing technologies could hold significant potential for defense intelligence in the maritime domain. There are, however, potential risks that sensing technology ...

This paper explores the emergence of fiber-optic tethered drone technologies as a resilient alternative that significantly enhances signal immunity, data security, and real-time control.

What makes optical fibers attractive for sensing is that different wavelengths of light can be used for different sensing applications. The military is now starting to use fiber optic sensors for the guidance ...

A Ukrainian-made fiber-optic drone in the Kyiv region of Ukraine last year. Hezbollah announced it has been using similar drones against Israeli soldiers operating in southern Lebanon or ...

The Russian Federation and Ukraine view this list as a reference list drawn up to help in the selection of dual-use goods which could contribute to the indigenous development, production or enhancement ...

Whether it's advanced field gear, ruggedized drones, or breakthrough medical tools, many technologies originally designed for military use have significant potential in civilian markets....

Imagine a world where the Internet doesn't just connect but senses --detecting earthquakes, monitoring battery health, or safeguarding critical infrastructure. This is the power of ...

This review paper provides a comprehensive analysis of machine learning-enabled distributed fiber optic sensors, focusing on their underlying principles and diverse range of applications.

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Discussion regarding sensing capabilities for subsea cables is driven by the emergence of distributed acoustic sensing, or DAS, which is an innovative technique that relies on fiber optics to ...



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