

Advanced Fire Detection Using Multi Signature Alarm Algorithms

CAN bus Intrusion Detection Systems (IDS): Advanced IDS and anomaly detection algorithms—often incorporating machine learning—monitor A controller area network bus (CAN bus) is a vehicle bus standard designed to enable efficient communication primarily between electronic control units (ECUs). Common versions of the CAN protocol include CAN 2. Its reliability is enhanced by differential signaling, which mitigates electrical noise. 0, CAN FD, and CAN XL which vary in their data rate. bandwidth and real-time performance. This broadcast-based, message-oriented

protocol ensures data integrity and prioritization through a process called arbitration, allowing the highest priority device to continue transmitting if multiple devices attempt to send data simultaneously, while others back off. Originally developed to reduce the complexity and cost of electrical wiring in automobiles through multiplexing, the CAN bus protocol has since been adopted in various other contexts c4ec772546

A great variety of methods for detecting landmines have been studied. These include electromagnetic methods, one of which (ground penetrating radar) has been employed in tandem with metal detectors. Acoustic methods can sense the cavity created by... c4ec772546 On April 29, 2014, ATK announced that it would spin off its Sporting Group and merge its Aerospace and Defense Groups with Orbital Sciences Corporation. c4ec772546

Search for extraterrestrial intelligence Zubrin, Robert (1995). "Detection of Extraterrestrial Civilizations via the Spectral Signature of Advanced Interstellar Spacecraft". In Shostak The search for extraterrestrial intelligence (usually

shortened as SETI) is an expression that refers to the diverse efforts and scientific projects intended to detect extraterrestrial signals, or any evidence of intelligent life beyond Earth. 2022-09-22 c4ec772546

History of radar True radar which provided directional and ranging information, such as the British Chain Home early warning system, was developed over the next two decades. The history of radar (where radar stands for radio detection and ranging) started with experiments by Heinrich Hertz in the late 19th century that showed The history of radar (where radar stands for radio detection and ranging) started with experiments by Heinrich Hertz in the late 19th century that showed that radio waves were reflected by metallic objects. 165546 in 1904). However, it was not until the early 20th century that systems able to use these principles were becoming widely available, and it was German inventor Christian Hülsmeyer who first used them to build a simple ship detection device intended to help avoid collisions in fog (Reichspatent Nr. This possibility was suggested in James Clerk Maxwell's seminal work on electromagnetism

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2023 in science Promising innovations relating to global challenges are reported: a laser-using drone-based methane plume The following scientific events occurred in 2023. urinary cancer biomarkers for detection (24 Apr) c4ec772546

Geophysical MASINT detected objects, with recognition of signatures as deviations from ambient noise, still gives a high false alarm rate (FAR) with conventional sonar. SAS Geophysical MASINT is a branch of Measurement and Signature Intelligence (MASINT) that involves phenomena transmitted through the earth (ground, water, atmosphere) and manmade structures including emitted or reflected sounds, pressure waves, vibrations, and magnetic field or ionosphere disturbances c4ec772546

The development of systems able to produce... c4ec772546

List of Japanese inventions and discoveries computer vision in the 1970s. Convolutional neural This is a list of Japanese inventions and discoveries. In particular, Japan has played a crucial role in the digital revolution since the 20th century, with many modern revolutionary and widespread technologies in fields such as electronics and robotics introduced by Japanese inventors and entrepreneurs. Japanese pioneers have made contributions across a number of scientific, technological and art domains. Object detection — In 1981, Takeo Kanade co-developed an object detection algorithm using part-based models c4ec772546

Alliant Techsystems The company operated across 22 states, Puerto Rico, and internationally. 8 billion. ATK revenue in fiscal year 2014 was about US\$4. (ATK) was an American aerospace and arms manufacturer headquartered in Arlington County, Virginia. detects missiles by their infrared signature, and uses algorithms to differentiate between incoming missiles and false alarms. Newer versions also have laser Alliant Techsystems Inc c4ec772546

Researchers use methods such as monitoring electromagnetic radiation, searching for optical signals, and investigating potential extraterrestrial artifacts for any signs of transmission from civilizations present on other planets. Some initiatives have also attempted to send messages to hypothetical alien civilizations, such as NASA's Golden Record. c4ec772546 GOES-16's design and instrumentation began in 1999 and was intended to fill... c4ec772546 Modern SETI research began in the early 20th century after the advent of radio, expanding with projects like Project Ozma, the Wow! signal detection, and the Breakthrough Listen initiative; a \$100 million... c4ec772546

2018 in science 8 March – Scientists report the first detection of natural ice VII on Earth A number of significant scientific events occurred in 2018. "Bristlecone", the world's most advanced quantum computer chip, featuring 72 qubits c4ec772546

The spinoff of the Sporting Group to create Vista Outdoor and the merger leading to the creation of Orbital ATK were completed on February 9, 2015. The companies began operations as separate entities on February 20, 2015. Orbital ATK was bought by

Northrop Grumman in 2018. c4ec772546

Demining data-fusion algorithms to greatly reduce the false alarms generated by metallic clutter. Mechanical devices such as flails and excavators are sometimes used to clear mines. One such dual-sensor device, the Handheld Standoff Mine Detection System Demining or mine clearance is the process of removing land mines from an area. By contrast, the goal of humanitarian demining is to remove all of the landmines to a given depth and make the land safe for human use. In military operations, the object is to rapidly clear a path through a minefield, and this is often done with devices such as mine plows and blast waves. Specially trained dogs are also used to narrow down the search and verify that an area is cleared c4ec772546

According to the United States Department of Defense, MASINT has technically derived intelligence (excluding traditional imagery IMINT and signals intelligence SIGINT) that—when collected, processed, and analyzed by dedicated MASINT systems—results in intelligence that detects, tracks, identifies or describes the signatures (distinctive

characteristics) of fixed or dynamic target sources. MASINT was recognized as a formal intelligence discipline in 1986. Another way to describe MASINT is a "non...
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GOES-16 GOES-16's Geostationary Lightning Mapper (GLM) GOES-16, formerly known as GOES-R before reaching geostationary orbit, is the first of the GOES-R series of Geostationary Operational Environmental Satellites (GOES) operated by NASA and the National Oceanic and Atmospheric Administration (NOAA). Earth through 16 spectral bands at visible and infrared wavelengths using its Advanced Baseline Imager (ABI). GOES-16's Geostationary Lightning Mapper (GLM) is the first operational lightning mapper flown in geostationary orbit. GOES-16 provides high spatial and temporal resolution imagery of the Earth through 16 spectral bands at visible and infrared wavelengths using its Advanced Baseline Imager (ABI). GOES-16 serves as a backup for NOAA's operational geostationary constellation. The spacecraft also includes four other scientific instruments for monitoring space weather and the Sun

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