

Landmine Detection With Ground Penetrating Radar Using

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Landmine Detection With Ground Penetrating

Landmine detection with ground penetrating radar using hidden Markov models. Abstract: Novel, general methods for detecting landmine signatures in ground penetrating radar (GPR) using hidden Markov models (HMMs) are proposed and evaluated. The methods are evaluated on real data collected by a GPR mounted on a moving vehicle at three different geographical locations.

Landmine detection with ground penetrating radar using ...

Landmine detection with ground penetrating radar using hidden Markov models. IEEE Trans. Geoscience and... Novel, general methods for detecting landmine signatures in ground penetrating radar (GPR) using hidden Markov models (HMMs) are proposed and evaluated.

Landmine detection with ground penetrating radar using ...

Novel, general methods for detecting landmine signatures in ground penetrating radar (GPR) using hidden Markov models (HMMs) are proposed and evaluated. The methods are evaluated on real data ...

Landmine detection with ground penetrating radar using ...

"Because conventional metal detectors and ground penetrating radar rely on similar same fields, it should eventually be possible to upgrade conventional systems with VENUS technology to maximize detection capability," said Dr. Josh Wetherington, principal Vadum researcher. ... New landmine detection method to reduce false alarm rates ...

New landmine detection method to reduce false alarm rates

Technologies are used for landmine detection are: •Metal detectors--- capable of finding even low-metal content mines in mineralized soils. •Nuclear magnetic resonance, fast neutron activation and thermal neutron activation. •Thermal imaging and electro-optical sensors--- detect evidence of buried objects.

LANDMINE DETECTION USING IMPULSE GROUND PENETRATING RADAR

logical objects, landmine detection). Currently, the landmine detection and improvised explosive devices (IEDs) using GPR are the subject of research. The GPR allows detecting both metallic and non-metallic targets in a non-invasive fashion [15]. Unlike metal detectors, GPR technology increases the detection depth range and reduces the false alarm rate.

UAV for Landmine Detection Using SDR-Based GPR Technology

Ground Penetrating Radar for Anti-Personnel Landmine Detection. Friday, 1 September, 2006 - 15:00. Campus: Brussels Humanities, Sciences & Engineering campus K auditorium P. Janssens. Luc Van Kempen. phd defence.

Ground Penetrating Radar for Anti-Personnel Landmine Detection

This paper presents the development of a lightweight and low-power Ground Penetrating Radar (GPR) to detect buried landmines in harsh terrain, using an Unmanned Aerial Vehicle (UAV). Despite the fact that GPR airborne systems have been already used for a while, there has yet been no focus on the UAV autonomy, which depends on the payload itself.

A Lightweight and Low-Power UAV-Borne Ground Penetrating ...

New landmine detection method to reduce false alarm rates ... performance of the technology in demanding and stressing field conditions."Because conventional metal detectors and ground ...

New landmine detection method to reduce false alarm rates ...

Yousef, S. , Yousef, M. , Abd-Elsalam, H. and Shaheen, M. (2020) Detection of the Possible Buried Archeological Targets Using the Geophysical Methods of Ground Penetrating Radar (GPR) and Self Potential (SP), Kom Ombo Temple, Aswan Governorate, Egypt.

Detection of the Possible Buried Archeological Targets ...

This chapter presents an approach for explosive-landmine detection on-board an autonomous aerial drone. The chapter describes the design, implementation and integration of a ground penetrating radar (GPR) using a software defined radio (SDR) platform into the aerial drone.

UAV for Landmine Detection Using SDR-Based GPR Technology ...

Aerial Landmine Detection using USRP SDR Based Ground Penetrating Radar. Over the last few years researchers at Universidad Javeriana Bogotá, a University in Colombia, have been looking into using SDRs for aerial landmine detection. The research uses a USRP B210 software defined radio mounted on a quadcopter, together with two Vivaldi antennas (one for TX and one for RX).

Aerial Landmine Detection using USRP SDR Based Ground ...

Explanatory Video by Florida Museum: PAUL GADER | Landmine Detection. In 1998, Paul Gader and Hichem Frigui devised a real-time mine Ground Penetrating Radar (GPR) detection algorithm that was a top performer in blind testing. He became Technical Director of the U. of Missouri Humanitarian Demining MURI.

Landmine Detection - Computing for Life

One of these relatively new technologies is ground penetrating radar (GPR), an attractive choice for landmine detection due to their advantages over other sensors. GPR can detect both metallic and plastic mines in a variety of soils by noninvasive subsurface sensing [3].

Ground-Penetrating Radar for Close-in Mine Detection ...

Histograms of Dominant Orientations for anti-personnel landmine detection using Ground Penetrating Radar IEEE International Conference on Electrical and Electronic Engineering (ICEEE) 2017 1 Temmuz 2017. Ground Penetrating Radar (GPR) senses dielectric discontinuities below the surface. Thus, it can detect low-metal and non-metal landmines.

Eyyup Temlioglu - Researcher & Software Developer - Nokta ...

There has been significant amount of study on the use of ground-penetrating radar (GPR) for land-mine detection. This paper presents our analysis of GPR data collected at a U.S. Army test site ...

Minimax Robust Landmine Detection Using Forward-Looking ...

Histograms of Oriented Gradients for Landmine Detection in Ground-Penetrating Radar Data. Abstract: Ground-penetrating radar (GPR) is a powerful and rapidly maturing technology for subsurface threat identification. However, sophisticated processing of GPR data is necessary to reduce false alarms due to naturally occurring subsurface clutter and soil distortions.

Histograms of Oriented Gradients for Landmine Detection in ...

The system is then used as a ground penetrating radar (GPR). GPR is a method that uses RF pulses in the range of 10 MHz to 2.6 GHz to create images of the subsurface. When a transmitted RF pulse hits a metallic object like a landmine, energy is reflected back resulting in a detection.

ground penetrating radar - rti-sdr.com

Ground Penetrating Radar is a multidisciplinary Nondestructive Evaluation technique that requires knowledge of electromagnetic wave propagation, material properties and antenna theory. Under some circumstances this tool may require auxiliary algorithms to improve the interpretation of the collected data. Detection, location and definition of target's geometrical and physical properties with ...

Artificial Neural Networks and Machine Learning techniques ...

Metal detectors have commonly been used for landmine detection, and ground-penetrating radar (GPR) is about to be deployed for this purpose. These devices are influenced by the magnetic and electric properties of soil, since both employ electromagnetic techniques.

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