

Mine Detection Vehicle

Paul L. Moorcraft, Peter McLaughlin

Report on the Advanced Technology Demonstration (ATD) of the Vehicular- Mounted Mine Detection (VMMD) Systems at Aberdeen, Maryland, and Socorro, New Mexico ,1998 This document presents an analysis of the results of an advanced technology demonstration of five vehicular-mounted mine detection systems developed for the detection of antitank land mines. The five contractors were Coleman Research Corporation; Computing Devices Canada; EG & G, Inc.; GDE Systems, Inc.; and GeoCenters, Inc. The systems were developed for the U.S. Army Night Vision and Electronic Sensors Directorate. The advanced technology demonstration took place at the Aberdeen Test Center, Aberdeen, Maryland, on June 8-19, 1998, and the Energetic Materials Research and Testing Center, Socorro, New Mexico, on July 13-24, 1998. The purpose of the program is to develop the technology for a remotely operated vehicle that will detect mines and mark their locations during military mine-clearance operations. The system will ultimately consist of a mine overpass vehicle upon which is mounted a sensor system that detects mines and a communication system that provides data transfer between the detection vehicle and the remote operator. The mine threats include both metal-cased mines and mines with low-metal content. These mines may be laid on ground surface or buried underground. The report outlines the systems' performance, in particular their detection probability and false-alarm rates, compared to the program's requirements.

Assigning Unmanned Undersea Vehicles (UUVs) to Mine Detection Operations ,1999 In an era when mines are inexpensive and easily accessible, present mine detection and area reconnaissance capabilities are insufficient to enable unencumbered maneuver in the littoral regions. Unmanned undersea vehicles (UUVs) possess potential to provide tactical commanders with full understanding of the mine threat without risk to ships or personnel and without exposing intentions. By integrating an assortment of emerging capabilities, a system comprised of a variety of UUVs could address this mine threat. This thesis develops and implements the Mine Reconnaissance System Assessment (MiRSA) model, a mixed integer-linear program, to assign a mix of UUVs to search areas within a suspected minefield. Using unclassified UUV performance estimates, this thesis compares combinations of two Long-term Mine Reconnaissance System (LMRS) vehicles, six Remote Environmental Monitoring Units (REMUS) vehicles, and a notional Manta vehicle. For a 262 square nautical mile area in the Straits of Hormuz, MiRSA finds the two LMRS vehicles can complete a 95% confidence level search in 91 hours, the Manta vehicle can complete the search in 130 hours, and the two LMRS vehicles with Manta employed optimally together require only 52 hours. For an exhaustive search, times rise sharply: Manta operating alone requires 1,004 hours and optimal employment of the two LMRS, six REMUS, and Manta vehicles finish the search in 384 hours.

Anti-personnel Landmine Detection for Humanitarian Demining Katsuhisa Furuta,Jun Ishikawa,2009-01-24 Anti-personnel Landmine Detection for Humanitarian Demining reports on state-of-the-art technologies developed during a Japanese National Research Project (2002-2007). The conventional method of landmine detection is using metal detectors to sense the metal in mines, but often other metal fragments in minefields camouflage landmines and hinder progress using this form of demining. The challenge is to develop detection systems that can discriminate between AP landmines and random metal fragments. The JST adopted research proposals and the results are reported here. This book concentrates on aspects of three approaches to AP mine detection: enhancing and confirming the results of metal-detection scans using GPR; using robot vehicles and manipulators to operate within minefields remotely; and methods of sensing the explosives within mines. Results are presented in the fields of GPR, nuclear quadrupole resonance, neutron thermal analysis and biosensors. The integration of these methods for workable robot operation is demonstrated. The project was carried out in conjunction with mine action centers in Croatia, Cambodia and Afghanistan. Evaluation data from field trials are also given.

Multidisciplinary Research in Mine Detection and Neutralization Systems: Missouri-Led Muri ,2003 The primary purpose of our MURI project was to explore and quantify the basic scientific and mathematical phenomena which can be exploited to detect, locate, and identify landmines, buried or on the earth's surface. Basic research projects was aimed at supporting the Army missions of airborne screening for minefields, forward-looking mine detection from vehicle-mounted systems, and mine detection with hand-held systems. Basic research projects were undertaken in the areas of signal processing and detection algorithms for Ground Penetrating Radar (GPR), multi-algorithm and multi-sensor fusion, image processing and detection algorithms for lightweight airborne mine detection, concepts for designing and fielding new OPR based mine detection systems, human in the loop analysis of operator performance and virtual reality systems for training for hand- held mine detection, detection of EMI from printed circuit boards in land mines, and development of new sensing strategies based on chemical vapor sniffing. Ood improvements in probabilities of detection and false alarm rates have been achieved in the algorithm work. Significant improvement in training effectiveness was demonstrated with virtual reality training. Very sensitive chemical detectors have been evaluated in laboratory settings.

K9 Explosive and Mine Detection Resi Gerritsen,Ruud Haak,2017-07-07 A comprehensive guide to training and certifying K9 explosive detection teams Learn how to: - Train your K9 to detect and safely alert for explosive substances. - Conduct operational searches in buildings, vehicles, ships, and planes. - Train your dog for the specialized work of mine detection. In the high stakes realm of explosive detection, where even the smallest mistake can have fatal consequences, the margin of error is zero. Well trained dog-handler teams can play a key role in explosive detection, but only if their training is top notch. Dr. Resi Gerritsen and Ruud Haak have worked with police departments around the world to help them establish and improve their K9 explosive detection training programs, and in this book they share their expertise with handlers and trainers looking to enhance their own performance. They teach how to pick the right dog for explosive detection work, how to train the dog to detect explosives, and how to properly execute a variety of training and operational searches. They also provide some of the background knowledge you'll need about common explosives and the many factors that can influence a K9's work. Along with essential health and safety precautions for you and your dog, you'll also learn how to test and certify dogs and handlers to ensure excellent performance in the field.

Proceedings of the Technology and the Mine Problem Symposium Albert M. Bottoms,Barbara Honegger,1996

Mobile Source Development for Seismic-Sonar Based Landmine Detection Douglas J. MacLean,Naval Postgraduate School (U.S.). Department of Physics,2003-06-01 Landmines continue to be a threat to both military and civilian communities throughout the world. Current methods of detection, while better than nothing, could certainly be improved. Seismic SONAR is a promising new technology that may help save countless lives. The goal of this thesis was to advance Seismic SONAR development by introducing a mobile source which could be easily used in practical applications. A small tracked vehicle with dual inertial mass shakers mounted on top was used for the mobile source. The source accurately transmitted the shaker signal into the ground, and its mobility made it a practical choice for field operations. It excited Rayleigh waves, as desired, but also generated undesirable P-waves and was not found to be directional. It proved incapable of finding a target. Improvements, such as a deploying an array of mobile sources and a stronger source, should vastly enhance the performance of such tracked vehicles in seismic SONAR mine detection and should be pursued.

Student Lesson ,1986

Alternatives for Landmine Detection Jacqueline MacDonald Gibson,Jacqueline MacDonald,J. R. Lockwood,John E. McFee,Thomas Altshuler,Thomas Broach,2003 At the rate that government and nongovernmental organizations are clearing existing landmines, it will take 450-500 years to rid the world of them. Concerned about the slow pace of demining, the Office of Science and Technology asked RAND to assess potential innovative technologies being explored and to project what funding would be required to foster the development of the more promising ones. The authors of this report suggest that the federal government undertake a research and development effort to develop a multisensor mine detection system over the next five to eight years.

A Comparison of Soldier Performance in a Moving Command Vehicle Under Manned, Teleoperated, and Semi-autonomous Robotic Mine Detector System Control Modes David R. Scribner, 2008 Soldiers will be required to perform missions using remote technology with increasing frequency as the U.S. Army transforms. Soldiers will be asked to carry out missions that will require them to be at greater standoff distance at the cost of degraded sensory information and resulting limited system performance. Historically, teleoperated systems have had capabilities that are twice the error rate and time required to perform a mission. This is due to the limited field of view, depth perception, vestibular cues, and other immersion reducing characteristics of remote operation. The need to provide operational improvements to the historically degraded teleoperation mode is being recognized by the U.S. Army in many areas, including route clearing and mine detection systems. The Robotic Mine Detection System (RMDS) has provided a system for mine detection and lane marking that allows several modes of operation that are purported to reduce soldier workload and error. These modes include manned operation, teleoperation, teleoperation with cruise control, and semi-autonomous path following. The path following mode is a GPS following mode that allows the Soldier to alter the lateral vehicle course in discrete control inputs known as biasing or bumping. The study was designed to examine these modes of operation comparing the subjective workload, stress, and motion sickness as well as course completion time, average speed, and driving error in terms of lateral drift. Soldiers were asked to operate the RMDS over a secondary course while maintaining proper speed and road edge following under all four conditions. Data for vehicle position and speed were collected at a rate of 5 Hz while subjective ratings of workload, stress, and motion sickness were collected at the mid-and end-points of the course runs. Participants were seven U.S. Army Soldiers and one Department of Defense civilian recruited from Ft. Belvoir, MD. Analysis of variance revealed significant effects for the treatment of control mode on lateral drift distances, course completion times, and stress measures.

Mine Detection U S Government Accountability Office (G,U. S. Government Accountability Office (, 2013-06 Pursuant to a congressional request, GAO reviewed the Army's development of a portable land mine detector, focusing on: (1) how the Army's AN/PSS-12 mine detector performed in detecting low-metallic mines in procurement tests; (2) the nature of the land mine threat in Bosnia-Herzegovina; and (3) the mine detector's potential effectiveness in Bosnia. GAO found that: (1) the Army has not clearly demonstrated the ability of its AN/PSS-12 mine detector to detect low metallic mines; (2) the detector performed poorly during operational testing and failed to meet the Army's 92-percent detection requirement against low metallic mines; (3) although both candidate detectors performed equally well after the Army removed low metallic targets from the procurement tests, the Army selected the AN/PSS-12 because of its lower price; (4) the detector's field accuracy is questionable, since the Army did not sufficiently control other environmental and operating factors that can affect detector performance; (5) the detector's usefulness in Bosnia may be limited because about 75 percent of the buried mines have a low metallic content; (6) although the detector's reported performance in Bosnia is good, the Army has limited the detector's use there; (7) the Air Force has warned its personnel in Bosnia that the detector is not sufficiently sensitive to low metallic mines and some countries have switched to other mine detectors; and (8) the Army has reduced its reliance on the detector through alternative threat-reduction practices, such as extensive personnel training in mine awareness, avoiding or carefully selecting routes through suspected mine fields, and using heavy equipment to clear paths.

A Comparison of Soldier Performance in a Moving Command Vehicle Under Manned, Teleoperated, and Semi-autonomous Robotic Mine Detector System Control Modes David R. Scribner, 2008 Soldiers will be required to perform missions using remote technology with increasing frequency as the U.S. Army transforms. Soldiers will be asked to carry out missions that will require them to be at greater standoff distance at the cost of degraded sensory information and resulting limited system performance. Historically, teleoperated systems have had capabilities that are twice the error rate and time required to perform a mission. This is due to the limited field of view, depth perception, vestibular cues, and other immersion reducing characteristics of remote operation. The need to provide operational improvements to the historically degraded teleoperation mode is being recognized by the U.S. Army in many areas, including route clearing and mine detection systems. The Robotic Mine Detection System (RMDS) has provided a system for mine detection and lane marking that allows several modes of operation that are purported to reduce soldier workload and error. These modes include manned operation, teleoperation, teleoperation with cruise control, and semi-autonomous path following. The path following mode is a GPS following mode that allows the Soldier to alter the lateral vehicle course in discrete control inputs known as biasing or bumping. The study was designed to examine these modes of operation comparing the subjective workload, stress, and motion sickness as well as course completion time, average speed, and driving error in terms of lateral drift. Soldiers were asked to operate the RMDS over a secondary course while maintaining proper speed and road edge following under all four conditions. Data for vehicle position and speed were collected at a rate of 5 Hz while subjective ratings of workload, stress, and motion sickness were collected at the mid-and end-points of the course runs. Participants were seven U.S. Army Soldiers and one Department of Defense civilian recruited from Ft. Belvoir, MD. Analysis of variance revealed significant effects for the treatment of control mode on lateral drift distances, course completion times, and stress measures.

Landmine Detection by Scatter Radiation Radiography John G. Campbell, ARMY MILITARY PERSONNEL CENTER ALEXANDRIA VA., 1987 The application of scatter radiation radiography to the detection of buried nonmetallic antitank landmines is examined. A combination of calculations and measurements is used to address the problem. The primary calculation tool is a Monte Carlo photon transport code. Measurements are made with an x-ray source, sodium iodide detector, and soil box positioning system. The soil box containing a model of a nonmetallic antitank mine is moved beneath the x-ray source to simulate both the forward motion of a vehicle transporting the detection system and raster of the beam to search a path of sufficient width to allow safe passage. Measurements are used to validate the calculation results for a small detector and produce images of buried mines. The calculations are extended to large area detectors which are required to provide path searches of approximately three widths. Environmental parameters, such as height sensitivity, soil density and moisture content, and inhomogeneities are examined in both calculations and measurements. Calculations are used to suggest mine detection mechanisms and to optimize geometric parameters and x-ray beam quality. Power requirements are also addressed. Keywords: Landmine; Mine warfare; Mine detection; Monte Carlo; Scattering; Imaging; Radiation transport; Detector response; X ray; Spectra; Backscatter; Nonmetallic mine; Theses.

Release of Explosive-related Vapors from Land Mines Daniel C. Leggett, 2001 Study to identify the quantity and identity of vapors released from buried land mines in order to improve mine detection equipment. It includes DNT, RDX and TNT.

Surviving the Ride Steve Camp, Helmoed-Romer Heitman, 2014-09-19 Mine-protected and mine-resistant, ambush-protected (MRAP) vehicles are today standard in the US, most major western armed forces and many other armies as a result of the wars in Iraq and Afghanistan. The South African Army was already routinely using mine-protected armored personnel carriers and patrol vehicles forty years ago even if they looked primitive and ungainly. A few years later, the South African Army had reached the stage where it could deploy entire combat groups into battle zones equipped with only mine-protected vehicles, including their ambulances and supply trucks. By then the mine-protected vehicles had also become effective for use in combat, rather than just protected transport, the Casspir being the chief example. More to the point, they saved countless soldiers and policemen from death or serious injury, and the basic concepts now live on in the various MRAP types in service today. The valuable lessons learned by the South Africans with their early designs of these combat-proven vehicles has led the country to become one of the global leaders in the design of MRAPs which are locally manufactured and exported around the

world. Surviving the Ride is a fascinating pictorial account featuring more than 120 of these unique South African-developed vehicles, spanning a forty-year period, with over 280 photographs, many of which are previously unpublished.

The Rhodesian War Paul L. Moorcraft, Peter McLaughlin, 2010 – The vicious conflict (1964–79) that brought Robert Mugabe to power in Zimbabwe – Expert coverage of the war, its historical context, and its aftermath – Descriptions of guerrilla warfare, counterinsurgency operations, and actions by units like Grey's Scouts Amid the colonial upheaval of the 1960s, Britain urged its colony in Southern Rhodesia (modern-day Zimbabwe) to grant its black residents a greater role in governing the territory. The white-minority government refused and soon declared its independence, a move bitterly opposed by the black majority. The result was the Rhodesian Bush War, which pitted the government against black nationalist groups, one of which was led by Robert Mugabe. Marked by unspeakable atrocities, the war ended in favor of the nationalists.

Land mine detection DOD's research program needs a comprehensive evaluation strategy : report to the Chairman, Subcommittee on Military Research and Development, Committee on Armed Services, House of Representatives , **Land Mine Detection** United States. General Accounting Office, 2001

Development and Construction of a Camera System for Landmine Detection W. de Jong, J. G. M. Schavemaker, TNO/1Den Haag, 2005

Student Lesson , 1986

Mine Detection Vehicle Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the ability of words has are more evident than ever. They have the ability to inspire, provoke, and ignite change. Such could be the essence of the book **Mine Detection Vehicle**, a literary masterpiece that delves deep to the significance of words and their effect on our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall impact on readers.

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