

# FOR ALTERNATIVES LANDMINE DETECTION



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# Alternatives For Landmine Detection

**Katsuhisa Furuta, Jun Ishikawa**



## **Alternatives For Landmine Detection:**

**Alternatives for Landmine Detection** ,2003 Antipersonnel mines remain a significant international threat to civilians despite recent intense efforts by the United States other developed countries and humanitarian aid organizations to clear them from postconflict regions Mines claim an estimated 15 000 20 000 victims per year in some 90 countries They jeopardize the resumption of normal activities from subsistence farming to commercial enterprise long after periods of conflict have ceased For example in Afghanistan during 2000 mines claimed 150 300 victims per month half of them children Although most of these mines were emplaced during the Soviet occupation of Afghanistan from 1979 to 1988 they continue to pose a serious risk to returning refugees and have placed vast tracts of farmland off limits The United States currently invests about 100 million annually in humanitarian mine clearance the largest commitment of any country Despite this investment and the funding from many other developed nations and nongovernmental organizations at the current rate clearing all existing mines could take 450 500 years

**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

*Detection of Explosives and Landmines* Hiltmar Schubert, Andrey Kuznetsov, 2012-12-06 This ARW is the third NATO sponsored workshop on Explosives Detection and Humanitarian Demining The previous events were Detection and Destruction of Anti Personnel Landmines Moscow 1997 Explosives Detection and Decontamination of the Environment Prague 1997 Over the last decade applied research in Humanitarian Demining has made progress to some extent but according to the tremendous tasks of Demining and the lack of scientific methods for practical detection of explosive devices research activities are still of the same importance than ever before Concerning countermeasures against terrorism the detection of explosives is one of the key factors but the practical applications are not sufficient solved An international exchange of research results are therefore urgent to find out the most promising measures for application The coincidence of this ARW and the terrible disaster of New York and Washington may demonstrate the importance of this task In consequence the explosive device detection technologies can make a major contribution to collective family and individual security In developed countries these technologies provide a strong deterrent and preventative measure against terrorist threats In less developed regions they can improve individual institutional and state security lessening the insecurity that motivates many terrorists acts The elimination of landmine threats is just one of many ways of achieving this However our attempts to meet the extremely difficult technical challenges posed by landmine

and UXO contamination are inevitably leading us to new technological approaches

### **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

### **Modelling, Simulation and Data Analysis in**

**Acoustical Problems** Claudio Guarnaccia, Lamberto Tronchin, Massimo Viscardi, 2020-06-23 Modelling and simulation in acoustics is currently gaining importance In fact with the development and improvement of innovative computational techniques and with the growing need for predictive models an impressive boost has been observed in several research and application areas such as noise control indoor acoustics and industrial applications This led us to the proposal of a special issue about Modelling Simulation and Data Analysis in Acoustical Problems as we believe in the importance of these topics in modern acoustics studies In total 81 papers were submitted and 33 of them were published with an acceptance rate of 37.5% According to the number of papers submitted it can be affirmed that this is a trending topic in the scientific and academic community and this special issue will try to provide a future reference for the research that will be developed in coming years

Counterterrorist Detection Techniques of Explosives Jehuda Yinon, 2011-10-13 The detection of hidden explosives has become an issue of utmost importance in recent years While terrorism is not new to the international community recent terrorist attacks have raised the issue of detection of explosives and have generated a great demand for rapid sensitive and reliable methods for detecting hidden explosives Counterterrorist Detection Techniques of Explosives covers recent advances in this area of research including vapor and trace detection techniques chemiluminescence mass spectrometry ion mobility spectrometry electrochemical methods and micromechanical sensors such as microcantilevers and bulk detection techniques neutron techniques nuclear quadrupole resonance x ray diffraction imaging millimeter wave imaging terahertz imaging and laser techniques This book will be of interest to any scientists involved in the design and application of security screening technologies including new sensors and detecting devices which will prevent the smuggling of bombs and explosives Covers latest advances in vapor and trace detection techniques and bulk detection techniques Reviews both current techniques and

those in advanced stages of development Techniques that are described in detail including its principles of operation as well as its applications in the detection of explosives

*Agent and Multi-Agent Systems: Technologies and Applications* Gordan Jezic, Mario Kusek, Ngoc Thanh Nguyen, Robert J. Howlett, Lakhmi C. Jain, 2012-06-16 This book constitutes the refereed proceedings of the 6th KES International Conference on Agent and Multi Agent Systems KES AMSTA 2012 held in Dubrovnik Croatia in June 2012 The conference attracted a substantial number of researchers and practitioners from all over the world who submitted their papers for ten main tracks covering the methodology and applications of agent and multi agent systems one workshop TRUMAS 2012 and five special sessions on specific topics within the field The 66 revised papers presented were carefully reviewed and selected for inclusion in the book The papers are organized in topical sections on virtual organizations knowledge and learning agents intelligent workflow cloud computing and intelligent systems self organization ICT based alternative and augmentative communication multi agent systems mental and holonic models assessment methodologies in multi agent and other paradigms business processing agents Trumas 2012 first international workshop conversational agents and agent teams digital economy and multi agent systems in distributed environments

*Subsurface Sensing* Ahmet S. Turk, Koksal A. Hocaoglu, Alexey A. Vertiy, 2011-07-06 This book provides readers with a solid understanding of the capabilities and limitations of the techniques used for buried object detection Presenting theory along with applications and the existing technology it covers the most recent developments in hardware and software technologies of sensor systems with a focus on primary sensors such as Ground Penetrating Radar GPR and auxiliary sensors such as Nuclear Quadruple Resonance NQR It is essential reading for students practitioners specialists and academicians involved in the design and implementation of buried object detection sensors

**Innovations in Defence Support Systems - 1** Anthony Finn, 2010-07-17 Innovations in the area of Defence Support Systems are multi disciplinary cover a broad range of technologies and could not possibly be covered within a single volume This research book presents a sample of research as below On the Transition of Innovation and Technology in Defence Inserting Innovations In service Classification of Battlefield Ground Vehicles based on the Acoustic Emissions Convoy Movement Problem An Optimization Perspective Machine Vision Algorithms for Autonomous Aerial Refueling for UAVs using the USAF Refueling Boom Method Motion Optimization Scheme for Cooperative Mobile Robots An Automated Decision System for Landmine Detection and Classification The book is directed to the application engineers research students professors decision makers and scientists engineers working in defence and related areas

*Land Mine Detection* United States. General Accounting Office, 2001

**EM Detection of Concealed Targets** David J. Daniels, 2009-11-25 THE LATEST EM TECHNIQUES FOR DETECTING CONCEALED TARGETS WHETHER EXPLOSIVES WEAPONS OR PEOPLE Extensively illustrated from basic principles to system design the fundamental concepts of RF microwave millimeter wave and terahertz detection systems and techniques to find concealed targets are explained in this publication These concealed targets may be explosive devices or weapons which can be buried

in the ground concealed in building structures hidden under clothing or inside luggage Concealed targets may also be people who are stowaways or victims of an avalanche or earthquake Although much information is available in conference proceedings and professional society publications this book brings all the relevant information in a single expertly written and organized volume Readers gain an understanding of the physics underlying electromagnetic EM detection methods as well as the factors that affect the performance of EM detection equipment helping them choose the right type of equipment and techniques to meet the demands of particular tasks Among the topics covered are Ultra wideband radar and ground penetrating radar Millimeter sub millimeter and terahertz systems Radar systems including Doppler harmonic impulse FMCW and holographic Radiometric systems Nuclear quadrupole resonance systems Author David Daniels has many years of experience designing and deploying EM systems to detect concealed targets As a result this publication is essential for scientists and engineers who are developing or using EM equipment and techniques for a diverse range of purposes including homeland security crime prevention or the detection of persons

**Explosives Detection** Lorenzo Capineri, Eyüp Kuntay Turmuş, 2020-01-29 This volume presents selected contributions from the Advanced Research Workshop on Explosives Detection hosted by the Department of Information Engineering of the University of Florence Italy in 2018 The main goal of the workshop was to find out how Science for Peace and Security projects in the field of Explosives Detection contribute to the development and or refinement of scientific and technical knowledge and competencies The findings of the workshop presented in the last section of the book determine future actions and direction of the SPS Programme in the field of explosives detection and management The NATO Science for Peace and Security SPS Programme promotes dialogue and practical cooperation between NATO member states and partner nations based on scientific research technological innovation and knowledge exchange Several initiatives were launched in the field of explosive detection and clearance as part of NATO's enhanced role in the international fight against terrorism Experts and scientists from NATO members and partner countries have been brought together in multi year projects within the framework of the SPS Programme to cooperate in the scientific research in explosive detection field developing new technologies and methods to be implemented in order to detect explosive substances in different contexts

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 ,

**Alternative Technologies to Replace Antipersonnel Landmines** National Research Council, Division on Engineering and Physical Sciences, Office of International Affairs, Commission on Engineering and Technical Systems, Committee on Alternative Technologies to Replace Antipersonnel Landmines, 2001-04-21 This book examines potential technologies for replacing antipersonnel landmines by 2006 the U S target date for signing an international treaty banning these weapons Alternative Technologies to Replace Antipersonnel Landmines emphasizes the role that technology can play to allow certain weapons to be used more selectively reducing the

danger to uninvolved civilians while improving the effectiveness of the U S military Landmines are an important weapon in the U S military s arsenal but the persistent variety can cause unintended casualties to both civilians and friendly forces New technologies could replace some but not all of the U S military s antipersonnel landmines by 2006 In the period following 2006 emerging technologies might eliminate the landmine totally while retaining the necessary functionalities that today s mines provide to the military

**Report of the Defense Science Board Task Force on Unexploded Ordnance (UXO) Clearance, Active Range UXO Clearance, and Explosive Ordnance Disposal (EOD) Programs ,** *Low-Power and*

*High-Sensitivity Magnetic Sensors and Systems* Eyal Weiss,Roger Alimi,2018-10-31 This comprehensive new resource analyzes sources of noise and clutter that magnetic sensing system developers encounter This book guides practitioners in designing and building low noise and low power consumption magnetic measurement systems Various examples of magnetic surveillance and survey systems are provided This book enables system designers to obtain an all inclusive spectral understanding of typical sources of noise and clutter present in the system and environment for each application in order to successfully design stable and sensitive low power magnetic sensing devices Detection and localization methods are explored as well as deterministic and heuristics algorithms which are an integral part of any magnetic sensing system This book is aimed to eliminate some of the black magic manipulations present during low noise magnetic measurements The book meticulously describes analyzes and quantifies the variables that affect low noise measurement systems Readers are able to understand sources of measurements irregularities and how to effectively mitigate them Moreover this book also presents low power magnetometers and dedicated low noise sampling techniques

**Ground Penetrating Radar Theory and Applications** Harry M. Jol,2008-12-08 Ground penetrating radar GPR is a rapidly developing field that has seen tremendous progress over the past 15 years The development of GPR spans aspects of geophysical science technology and a wide range of scientific and engineering applications It is the breadth of applications that has made GPR such a valuable tool in the geophysical consulting and geotechnical engineering industries has lead to its rapid development and inspired new areas of research in academia The topic of GPR has gone from not even being mentioned in geophysical texts ten years ago to being the focus of hundreds of research papers and special issues of journals dedicated to the topic The explosion of primary literature devoted to GPR technology theory and applications has lead to a strong demand for an up to date synthesis and overview of this rapidly developing field Because there are specifics in the utilization of GPR for different applications a review of the current state of development of the applications along with the fundamental theory is required This book will provide sufficient detail to allow both practitioners and newcomers to the area of GPR to use it as a handbook and primary research reference Review of GPR theory and applications by leaders in the field Up to date information and references Effective handbook and primary research reference for both experienced practitioners and newcomers

**Trace Chemical Sensing of Explosives** Ronald L. Woodfin,2007-03-15 This timely book covers the most recent developments in the chemical

detection of explosives in a variety of environments Beginning with a broad view of the need for and the potential applications of chemical sensing the book considers the issue of how to effectively include chemical sensing into systems designed to find hidden explosives devices Offering a firsthand look at the latest technologies direct from those who are actively developing them the book features A look at the history of the field including the contributions of recent programs A brief explanation of the chemistry of various explosives and differences in the place where they may be detected An introduction to the problems presented by trace element sensing An overview and comparison of the technologies currently being used and developed Case studies of field experiences with chemical sensors A look at the emerging threat of non traditional explosives This book is an important reference for explosives engineers systems engineers involved in the development of related devices government agencies and NGOs involved in demining efforts military and law enforcement specialists in mines and explosive ordinance disposal EOD as well as environmental scientists and chemists involved in explosives research In addition to providing field workers with knowledge that will help them decide where and how to search for explosives using chemical sensors It will provide them with an understanding of the potential and the limitations of chemical sensing in their search for and identification of dangerous devices

**Protecting Lives, Restoring Livelihoods:  
The U.S. Program To Remove Landmines ,      Mine Action** Multiple Authors, 2017-08-30 Every day civilians in dozens of countries around the world are injured and killed by landmines and other lethal leftovers of conflict years after hostilities of war have ended Once planted a mine will never be able to tell the difference between a military and civilian footstep and a bomblet will continue to attract children and metal dealers In order to put an end to the suffering and casualties caused by antipersonnel mines the Convention on the Prohibition of the Use Stockpiling Production and Transfer of Anti Personnel Mines and on their Destruction the Ottawa Convention or Mine Ban Treaty was adopted in 1997 Further in order to prevent suffering and casualties caused by cluster munitions at the time of their use the Convention on the Use Stockpiling Production and Transfer of Cluster Munitions the Oslo Convention was adopted in 2008 In 1996 the Royal Military Academy RMA opted for the implementation of mine action technological projects funded by the Belgian Ministry of Defense and the Belgian State Secretariat for Development Cooperation It further decided to set up a close collaboration with other Belgian universities which started organizing their own research activities on mine action Later other funding sources were granted to RMA by the Belgian Science Policy the European Commission and the European Committee for Standardization At a more politico administrative level RMA participates in the States Parties Meetings of the Mine Ban Treaty and in this context Prof Achery created an expert group on mine action technologies with representatives of different organizations and countries aiming at informing the States Parties of the Mine Ban Treaty about the evolution of the mine action technologies Further Prof Y Baudoin created working groups dedicated to robotics in mine action within international organization This book reports research activities achieved by the RMA s



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