



Adaptive Methods in Underwater Acoustics

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Adaptive Methods In Underwater Acoustics

**Ding Lee, A. S. Cakmak, Robert
Vichnevetsky**



Adaptive Methods In Underwater Acoustics:

Adaptive Methods in Underwater Acoustics H.G. Urban,2012-12-06 The NATO Advanced Study Institute on Adaptive Methods in Underwater Acoustics was held on 30 July 10 August 1984 in Lüneburg Germany The Institute was primarily concerned with signal processing for underwater applications The majority of the presentations when taken together yield a definite picture of the present status of understanding of adaptive and high resolution processing setting out the progress achieved over the past four years together with the major problem areas remaining Major effort was made to obtain a commensurate contribution of tutorial and advanced research papers It is my hope that the material in this volume may be equally well suited for students getting an introduction to some of the basic problems in underwater signal processing and for the professionals who may obtain an up to date overview of the present state of the art This might be especially useful in view of the controversy and lack of adequate interrelationships which have marked this rapidly expanding field in the past Practical reinforcement of this picture is provided by the material concerning digital and optical processing technology giving some guidance to achievable adaptive and high resolution techniques with current processing devices The formal programme was extended and detailed by a series of six evening work shops on specific topics during which informal discussions took place among the participants Summaries of these workshops are also included in these Proceedings

Adaptive Methods in Underwater Acoustics H. G. Urban,1985-04-30 **Adaptive Methods in Underwater Acoustics** Advanced Study Institute on Adaptive Methods in Underwater Acoustics. 1984, Lüneburg,1985 [NATO Advanced Study Institute on Adaptive Methods in Underwater Acoustics](#) North Atlantic Treaty Organization. Scientific Affairs Division,1984* [Digital Sonar Design in Underwater Acoustics](#) Qihu Li,2012-03-05 [Digital Sonar Design in Underwater Acoustics Principles and Applications](#) provides comprehensive and up to date coverage of research on sonar design including the basic theory and techniques of digital signal processing basic concept of information theory ocean acoustics underwater acoustic signal propagation theory and underwater signal processing theory This book discusses the general design procedure and approaches to implementation the design method system simulation theory and techniques sonar tests in the laboratory lake and sea and practical validation criteria and methods for digital sonar design It is intended for researchers in the fields of underwater signal processing and sonar design and also for navy officers and ocean explorers Qihu Li is a professor at the Institute of Acoustics Chinese Academy of Sciences and an academician of the Chinese Academy of Sciences

Underwater Acoustics Salah Bourennane,2012-03-28 The field of acoustic engineering has many various potential applications such as in ocean science research and homeland security This book provides cutting edge knowledge in current techniques and technologies such as the adaptive technique for underwater communication array processing and the CI OFDM system One chapter takes inspiration from the natural world in proposing a new bio inspired ranging approach for resolution purposes Technologies such as high resolution array processing methods can also be used to locate underwater

objects in sediment as one chapter shows Finally two contributions cover the applications of narrowband interference suppression and iterative equalization and decoding schemes Given the scope of the book it will be required reading for researchers and engineers in the field

The Research on Adaptive and Machine Learning Methods in Underwater Acoustic Channel Estimation Yonglin Zhang,2022 The ocean covers more than 70% of the earth which provides rich biological chemical mineral and space resources for the development of human civilization The cause of managing the ocean is of strategic importance to our economic development and national security Acoustic wave is the most widely used and mature underwater information transmission carrier known to mankind Underwater acoustic UWA communication technology is one of the main technical supports to carry out various marine activities but it is challenged by the complex marine environment specifically in terms of propagation loss UWA environmental noise multipath propagation characteristics Doppler expansion spatial and temporal variation effects and other scientific issues which restricts the improvements of the bit error rate BER performance communication rate communication distance robustness and other indicators The current level of development of UWA communication technology is difficult to fully meet the needs of practical applications Channel estimation is an effective technical means to solve the problems of multipath effect and temporal spatial variation characteristics Recent breakthroughs in adaptive methods and machine learning in various fields have brought new opportunities for the further development of UWA channel estimation technology but also raised new technical problems such as the use of channel structure characteristics sample scarcity training label missing training domain mismatch caused by environmental changes These problems make the effectiveness and applicability of the new method seriously restricted and it is difficult to bring out the proper information sensing ability Based on the frontier of intelligent ocean and marine information science this thesis focuses on the scientific problems of UWA communication in complex marine environment according to the development needs of national marine strategy aims at the key technical problems faced by adaptive and machine learning channel estimation methods such as analysis of channel cluster sparsity characteristics limited data label missing domain mismatch etc and introduces optimization methods neural network model design and analysis data augmentation methods transfer learning and other recent academic results We have explored the mechanism of adaptive and machine learning based channel estimation methods and finally proposed a series of new methods for channel estimation based on adaptive signal processing and machine learning

Underwater Acoustic Modeling and Simulation Paul C. Etter,2018-04-06 This newest edition adds new material to all chapters especially in mathematical propagation models and special applications and inverse techniques It has updated environmental acoustic data in companion tables and core summary tables with the latest underwater acoustic propagation noise reverberation and sonar performance models Additionally [Underwater Acoustic Modeling and Simulation, Fourth Edition](#) Paul C. Etter,2013-02-21 Underwater Acoustic Modeling and Simulation Fourth Edition continues to provide the most authoritative overview of currently available

propagation noise reverberation and sonar performance models This fourth edition of a bestseller discusses the fundamental processes involved in simulating the performance of underwater acoustic systems and emphasizes the importance of applying the proper modeling resources to simulate the behavior of sound in virtual ocean environments New to the Fourth Edition Extensive new material that addresses recent advances in inverse techniques and marine mammal protection Problem sets in each chapter Updated and expanded inventories of available models Designed for readers with an understanding of underwater acoustics but who are unfamiliar with the various aspects of modeling the book includes sufficient mathematical derivations to demonstrate model formulations and provides guidelines for selecting and using the models Examples of each type of model illustrate model formulations model assumptions and algorithm efficiency Simulation case studies are also included to demonstrate practical applications Providing a thorough source of information on modeling resources this book examines the translation of our physical understanding of sound in the sea into mathematical models that simulate acoustic propagation noise and reverberation in the ocean The text shows how these models are used to predict and diagnose the performance of complex sonar systems operating in the undersea environment

Progress in Underwater Acoustics

Harold Merklinger, 2012-12-06 IMAGE TRACKS AT HALIFAX by L B Felsen All living kind much effort spend Some model modes some model rays To cope with their environment Some feel that spectra all portrays Some use their eyes some use their nose Then there are those who with despatch To sense where other things repose Take refuge in the ocean wedge For one group nothing s more profound Than to explore the world with sound If things get messy randomize These audio diagnosticians What s partly smooth determinize You ponder is it this or that Go by the name of acousticians And wish you were a lowly bat They regularly meet to check Whether their sonogram s on track The meeting s hosts did treat us well With images stored in their packs They let the climate cast its spell This year they came to Halifax No weath ry hope was placed in vain There they combined with ocean types We were exposed to wind and rain And each could hear the other s gripes We glimpsed blue sky through clouds dispersed A meeting naturally does start But rainy sequence was reversed Reviewing present state of art The ocean types would like it wet What we found out is where it s at Yet they got stuck with sun instead We cannot hope to match the bat Each confrence has the same refrain Computer printouts by the reams It has been fun to meet again High-resolution Spatial Processing in Underwater Acoustics United States. Naval Ocean Research and Development Activity, 1985 The Journal of the Acoustical Society of America Acoustical Society of America, 2005

References to Contemporary Papers on Acoustics Frederick E. White, Donald C. Teas, 1986 **Chinese Journal of Acoustics** , 1990 **Computational Acoustics: Seismo-ocean acoustics and modeling** Ding Lee, A. S. Cakmak, Robert Vichnevetsky, 1990 This 3 volume set contains contributions from different areas of Computational Acoustics Covered are computational methods to solve acoustics problems including aero acoustics seismo acoustics and ocean acoustics and in general wave propagation problems computational aspects of the interface between aero seismo and ocean acoustics new

solution techniques that have been made possible with the advent of new computer architectures such as parallel computers super pipeline computers hypercubes etc

Research Opportunities in Underwater Acoustics National Research Council (U.S.). Panel on Research Opportunities in Underwater Acoustics, Robert C. Spindel, 1986

Close Range Acoustic Ice Hazard Detection, 1987

Adaptive Technique for Underwater Acoustic Communication Shen Xiaohong, 2012

Underwater Acoustic System Analysis William S. Burdick, 2002

Underwater Acoustic System Analysis provides a comprehensive exploration of underwater acoustics acoustic signal generation and acoustic signal processing for the practicing systems analyst and systems engineer This second edition first published in 1991 contains all the valuable information in the earlier edition plus a detailed discussion of adaptive processing as applied to spatial filtering Highlights of the book are Generation and propagation of compressional acoustic waves in the ocean narrowband signatures of surface ships caused by cavitating propeller blades and diesel engine firing Optimization of signal to noise ratio and spatial resolution in the presence of multiple acoustic signals Ambient noise in the ocean and Examples of system performance analysis

Numerical Data and Functional Relationships in Science and Technology, 1982

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