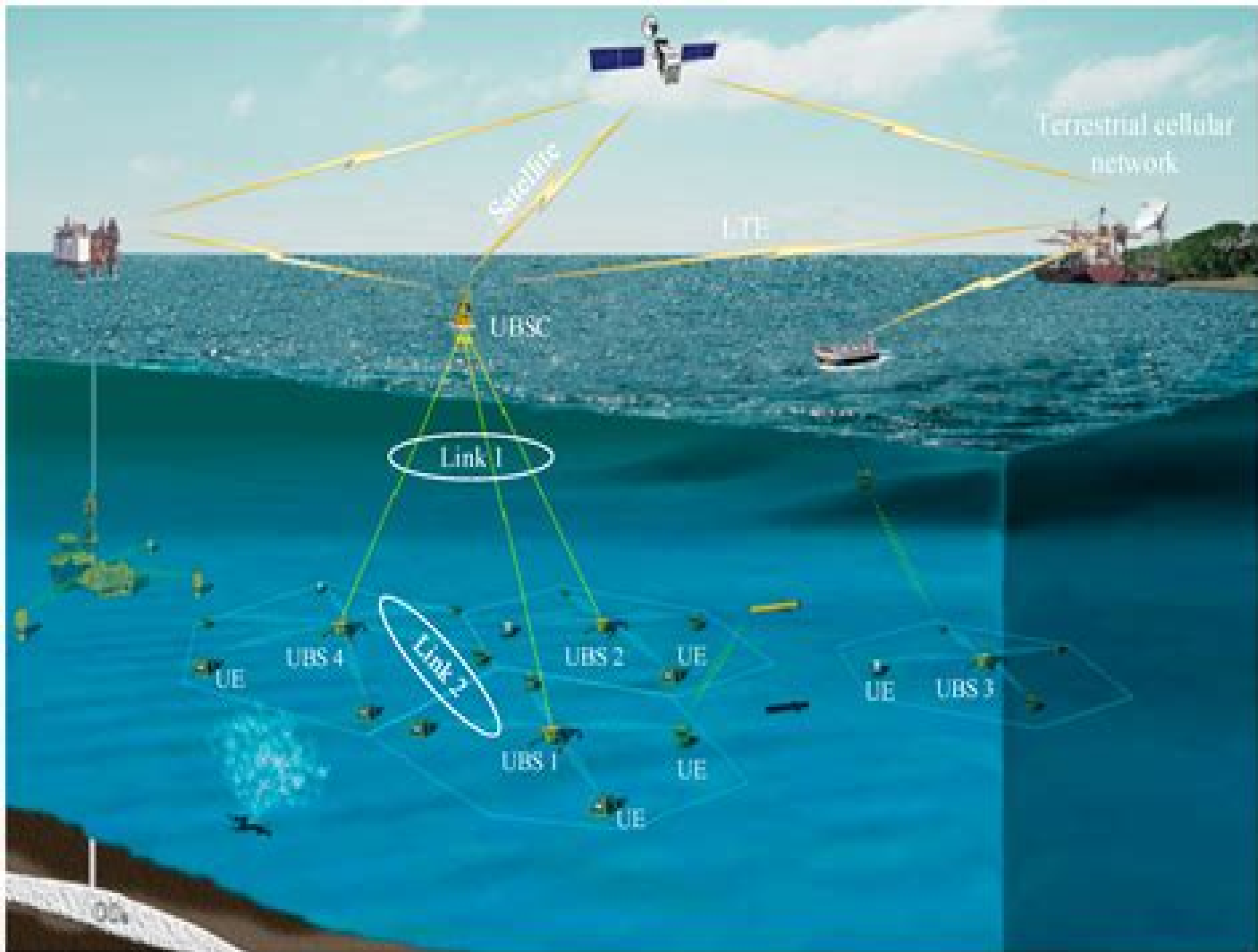




Underwater Acoustic Data Processing Underwater Acoustic Data Processing

Chunshan Liu



Underwater Acoustic Data Processing Underwater Acoustic Data Processing:

Underwater Acoustic Data Processing Y. T. Chan, 1989-03-31 This book contains the papers that were accepted for presentation at the 1988 NATO Advanced Study Institute on Underwater Acoustic Data Processing held at the Royal Military College of Canada from 18 to 29 July 1988 Approximately 110 participants from various NATO countries were in attendance during this two week period Their research interests range from underwater acoustics to signal processing and computer science some are renowned scientists and some are recent Ph D graduates The purpose of the ASI was to provide an authoritative summing up of the various research activities related to sonar technology The exposition on each subject began with one or two tutorials prepared by invited lecturers followed by research papers which provided indications of the state of development in that specific area I have broadly classified the papers into three sections under the titles of I Propagation and Noise II Signal Processing and III Post Processing The reader will find in Section I papers on low frequency acoustic sources and effects of the medium on underwater acoustic propagation Problems such as coherence loss due to boundary interaction wavefront distortion and multipath transmission were addressed Besides the medium corrupting noise sources also have a strong influence on the performance of a sonar system and several researchers described methods of modeling these sources

Underwater Acoustic Data Processing Y T Chan, 1989 *Fisheries Acoustics* Gaurav Shekhar, 2025-02-20 Fisheries Acoustics Understanding Aquatic Environments takes you on a captivating journey into the hidden world beneath the waves This comprehensive guide helps readers appreciate the intricate ecosystems thriving in the ocean s depths We offer a unique perspective on the wonders of marine life From vibrant coral reefs to mysterious deep sea trenches each chapter explores different underwater ecosystems revealing the diversity of life forms and the interconnectedness of marine environments Starting with the fundamental principles of marine life we provide essential background knowledge for understanding the complex interactions that shape underwater ecosystems Readers are taken on a virtual dive exploring various underwater habitats and fascinating creatures Stunning photography and detailed illustrations bring the underwater world to life capturing the beauty and diversity of marine life The book explains the crucial role of ocean life in maintaining Earth s biodiversity regulating climate patterns and providing valuable resources Emphasizing conservation efforts we highlight the importance of protecting fragile ecosystems from threats like pollution and overfishing We also explore technological advancements revolutionizing our ability to study ocean depths Whether you re a marine biologist or an ocean enthusiast Fisheries Acoustics Understanding Aquatic Environments offers a wealth of knowledge and inspiration **The Shock and Vibration Digest** , 1990 **The Militarily Critical Technologies List** , 1992 Issues in Acoustic Signal — Image Processing and Recognition C. H. Chen, 2012-12-06 The NATO Advanced Research Workshop on Issues in Acoustic Signal Image Processing and Recognition was held August 5 9 1982 at the Cappuccini complex in San Miniato Italy The Workshop was primarily concerned with the underwater acoustic signal processing and seismic signal analysis and a major effort was

made to link these topics with pattern recognition i ge processing and artificial intelligence Major issues and new approaches in these interrelated areas were closely examined in the Workshop In addition to paper presentations three discussion sessions were held on 1 spectral analysis in underwater acoustics 2 seismic wave propaga tion seismic imaging and migration and seismic inversion and 3 unresolved issues and future directions This Proceedings volume includes most presentations made at the Workshop The publication like the meeting itself is unique in the sense that it provides exten sive interactions among the closely related areas stated above Such interactions which usually result in the integration of different systems or approaches are certainly much needed to achieve some performance breakthrough while individual systems or approaches reach their performance limit I am grateful to all participants for their active participation that makes the Workshop very productive and to Dr Lewis J Lloyd and Dr Ralph Goodman for their help to arrange an informative visit to the SACLANT ASW Research Centre for the Workshop participants I am confident that this publication will be equally produc tive to report important current research results and near future research activity particularly in underwater acoustic signal processing

Technical Abstract Bulletin , **Maritime Information Review** ,1998 *Underwater Acoustic Digital Signal Processing and Communication Systems* Robert Istepanian,Milica Stojanovic,2002-08-31 *Underwater Acoustic Digital Signal Processing and Communication Systems* describes new design and development methodologies in underwater acoustic signal processing The emphasis is on experimental efforts and modern DSP implementations The book assembles a number of contributions from authors who have contributed significantly to the field The topics cover a broad range of underwater acoustic signal processing applications underwater wireless communciations array processing for mapping detection and localization of objects biotelemetry speech processing for divers acoustic imaging and use of neural networks for underwater signal processing

Underwater Acoustic Signal Processing Douglas A. Abraham,2019-02-14 This book provides comprehensive coverage of the detection and processing of signals in underwater acoustics Background material on active and passive sonar systems underwater acoustics and statistical signal processing makes the book a self contained and valuable resource for graduate students researchers and active practitioners alike Signal detection topics span a range of common signal types including signals of known form such as active sonar or communications signals signals of unknown form including passive sonar and narrowband signals and transient signals such as marine mammal vocalizations This text along with its companion volume on beamforming provides a thorough treatment of underwater acoustic signal processing that speaks to its author s broad experience in the field

Digital Underwater Acoustic Communications Lufen Xu,Tianzeng Xu,2016-09-16 *Digital Underwater Acoustic Communications* focuses on describing the differences between underwater acoustic communication channels and radio channels discusses loss of transmitted sound in underwater acoustic channels describes digital underwater acoustic communication signal processing and provides a comprehensive reference to digital underwater acoustic communication equipment This book is designed to serve as a reference for postgraduate

students and practicing engineers involved in the design and analysis of underwater acoustic communications systems as well as for engineers involved in underwater acoustic engineering Introduces the basics of underwater acoustics along with the advanced functionalities needed to achieve reliable communications in underwater environment Identifies challenges in underwater acoustic channels relative to radio channels underwater acoustic propagation and solutions Shows how multipath structures can be thought of as time diversity signals Presents a new robust signal processing system and an advanced FH SS system for multimedia underwater acoustic communications with moderate communication ranges above 20km and rates above 600bps Describes the APNFM system for underwater acoustic communication equipment including both civil and military applications to be employed in active sonar to improve its performance

Scientific and Technical Aerospace Reports ,1976 *Oceanic Citation Journal with Abstracts and Indexes* ,1972 *Bibliography of Scientific and Industrial Reports* ,1965-07 **U.S. Government Research & Development Reports** ,1965 **Advanced Signal Processing Techniques for Underwater Acoustic Communication Networks** Chunshan Liu,2011 In this thesis we develop and investigate novel signal processing techniques for underwater acoustic communication networks Underwater acoustic channels differ from radio communication channels in the lower speed of signal propagation richer and often sparse multipath arrivals and more severe Doppler effect Therefore many signal processing techniques developed for radio communications may not work equivalently well for underwater acoustic channels To investigate signal processing techniques in underwater acoustics efficient simulation of signal transmission is required Specifically there is requirement for accurate simulation of doubly selective underwater channels for different acoustic environments In this thesis a low complexity channel simulator has been developed for scenarios with moving transmitter receiver The simulator is based on efficient generation of time varying channel impulse response obtained using interpolation over a set of waymark impulse responses for a relatively small number of sampling points on the transmitter receiver trajectory The waymark impulse responses are generated using an acoustic field computation method which is the most computationally expensive part of the simulator To reduce the trajectory sampling rate and thus to reduce the complexity of the field computation an approach for adjusting the time varying multipath delays has been developed For setting the trajectory sampling interval a simple rule has been proposed based on the waveguide invariant theory To further reduce the simulator complexity local spline interpolation is exploited The developed simulator has been verified by comparing the simulated data with data from real ocean experiments In particular applying simulated data to an OFDM modem shows similar performance with that obtained from the data of a deep water experiment In communication networks knowledge of positions of communication nodes is important for improving the system performance A multi source localization technique has been proposed based on the matched field MF processing The technique locates the nodes by solving a set of basis pursuit de noising BPDN problems corresponding to a set of source frequencies An efficient technique combining the homotopy approach and coordinate

descent search has been developed to solve the BPDN problem Further reduction in the complexity has been achieved by applying a position grid refinement method Verified using simulated data generated by the proposed simulator and data from real experiment the proposed technique outperforms other MF techniques in resolving sources positioned closely to each other tolerance to noise and capability of locating multiple sources To provide reliable localization based on MF techniques accurate knowledge of the underwater acoustic environment is essential However such knowledge is not always available Estimating uncertain environmental parameters can be achieved using MF inversion techniques This requires solving a global optimization problem Several global optimization algorithms have been investigated and an algorithm combining the simulated annealing and downhill simplex method has been applied for estimating the sound speed profile in a deep water scenario Accurate MF localization results have been demonstrated when using the estimated sound speed profile A very important task of communication receivers is accurate channel estimation The knowledge of node positions and the environment can be exploited for enhancing the channel estimation accuracy and reducing the estimation complexity This knowledge can be used to define the structure of the channel impulse response such as the multipath spread and the sparsity A channel estimator exploiting the channel sparsity estimated from the node positions has been proposed and investigated The sparse taps of the channel impulse response are identified by solving a BPDN problem The estimator employs an iterative tap by tap processing and uses local splines to interpolate the time varying tap coefficients This allows reduction in the complexity and memory requirement whereas providing a high estimation accuracy

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