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Experimental study of underwater operation scene with target perception framework

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Abstract

This paper presents a target perception framework aimed at enhancing diver safety and facilitating underwater operations by extracting critical information from underwater scenes. The framework employs a layered processing approach, which encompasses water column imaging, constant false alarm rate detection, and local feature analysis. To simulate the diver's underwater environment, we conducted experiments with three distinct fields of view: fixed down-looking, fixed front-looking, and mobile side-looking perspectives. Our experimental findings demonstrate the framework's ability to accurately differentiate between false targets, stationary targets, and moving targets within the underwater scenes, as well as to capture the motion trajectories of dynamic targets. Furthermore, the application of 3D reconstruction techniques to underwater scene data enables the generation of approximate stereoscopic representations of divers and bubble groups.

Keywords: Target perception, Underwater operation, Acoustic image, Sonar

1 Introduction

Equipment developed using acoustic technology has become the 'eyes', 'ears', and 'mouths' for humans to carry out underwater activities [1–3] such as resource surveying, environmental monitoring, meteorological observation, and ocean mapping. In recent years, there has been a rapid development of unmanned ships or underwater robots as carriers, equipped with acoustic equipment, and the use of acoustic technology to engage in various underwater operations [4, 5]. Nikolovska et al. [6] used multi-beam water body imaging technology to image bubble groups in the Black Sea, to accurately locate the actual gas leakage area. Weber et al. [7] examined the near-surface layer during a storm in order to obtain observational verification for theories on bubble clustering. Masett et al. [8] reported that divers investigated coastal waters that might pose a danger to seafarers and drew a map of sunken ships.

When considering the application of acoustic technology in underwater operations, it becomes imperative to furnish support for the following tasks:

- Scanning of extensive and intricate underwater environments: swiftly surveying vast and intricate underwater landscapes.

Perception And Performance Underwater

**Md Atiqur Rahman Ahad, Upal
Mahbub, Matthew Turk, Richard Hartley**

Perception And Performance Underwater:

Perception and Performance Under Water John Adolfson, Thomas Berghage, 1974 *An Introduction to Veterinary Medicine Engineering* Nadja Bressan, Catherine M. Creighton, 2023-04-18 Do cephalopods change color when under distress Is the reptilian heart analogous to a diaphragm positive displacement pump Are digital twins the answer for animal experimentation This book explores the new field of veterinary engineering science and discusses how to better measure vital signs in exotic and companion animals A vast opportunity exists for developing novel technologies that target reductions to the number of invasive procedures patients are subjected to We examine improvements to animal care and enhancement of animal welfare while creating a more sustainable veterinary healthcare ecosystem The authors address the challenges engineers face in designing healthcare equipment for animals and how the field of veterinary engineering contributes to traditional veterinary medicine This book brings a novel field of engineering to train future veterinarians and engineers on design and application of technology to veterinary medicine Serves as a learning resource for the training and education of veterinary students veterinarians and engineers Demonstrates through experiments and case studies the merging point between engineering and veterinary medicine Discusses concepts and issues associated with engineering and veterinary medicine Illustrates veterinary challenges using an engineering design approach Provides examples of veterinary applications with successful outcomes incorporating step by step directions for engineers

The Physiology and Medicine of Diving and Compressed Air Work Peter B. Bennett, David Hallen Elliott, 1975 **Intervention ... Conference and Exposition** , 1987 **Fish Visual Census in Marine Protected Areas** , 1999 **Medical Books and Serials in Print, 1979** R. R. Bowker LLC, 1979-05 **Computer Vision** Md Atiqur Rahman Ahad, Upal Mahbub, Matthew Turk, Richard Hartley, 2024-07-30 Computer vision has made enormous progress in recent years and its applications are multifaceted and growing quickly while many challenges still remain This book brings together a range of leading researchers to examine a wide variety of research directions challenges and prospects for computer vision and its applications This book highlights various core challenges as well as solutions by leading researchers in the field It covers such important topics as data driven AI biometrics digital forensics healthcare robotics entertainment and XR autonomous driving sports analytics and neuromorphic computing covering both academic and industry R D perspectives Providing a mix of breadth and depth this book will have an impact across the fields of computer vision imaging and AI Computer Vision Challenges Trends and Opportunities covers timely and important aspects of computer vision and its applications highlighting the challenges ahead and providing a range of perspectives from top researchers around the world A substantial compilation of ideas and state of the art solutions it will be of great benefit to students researchers and industry practitioners

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