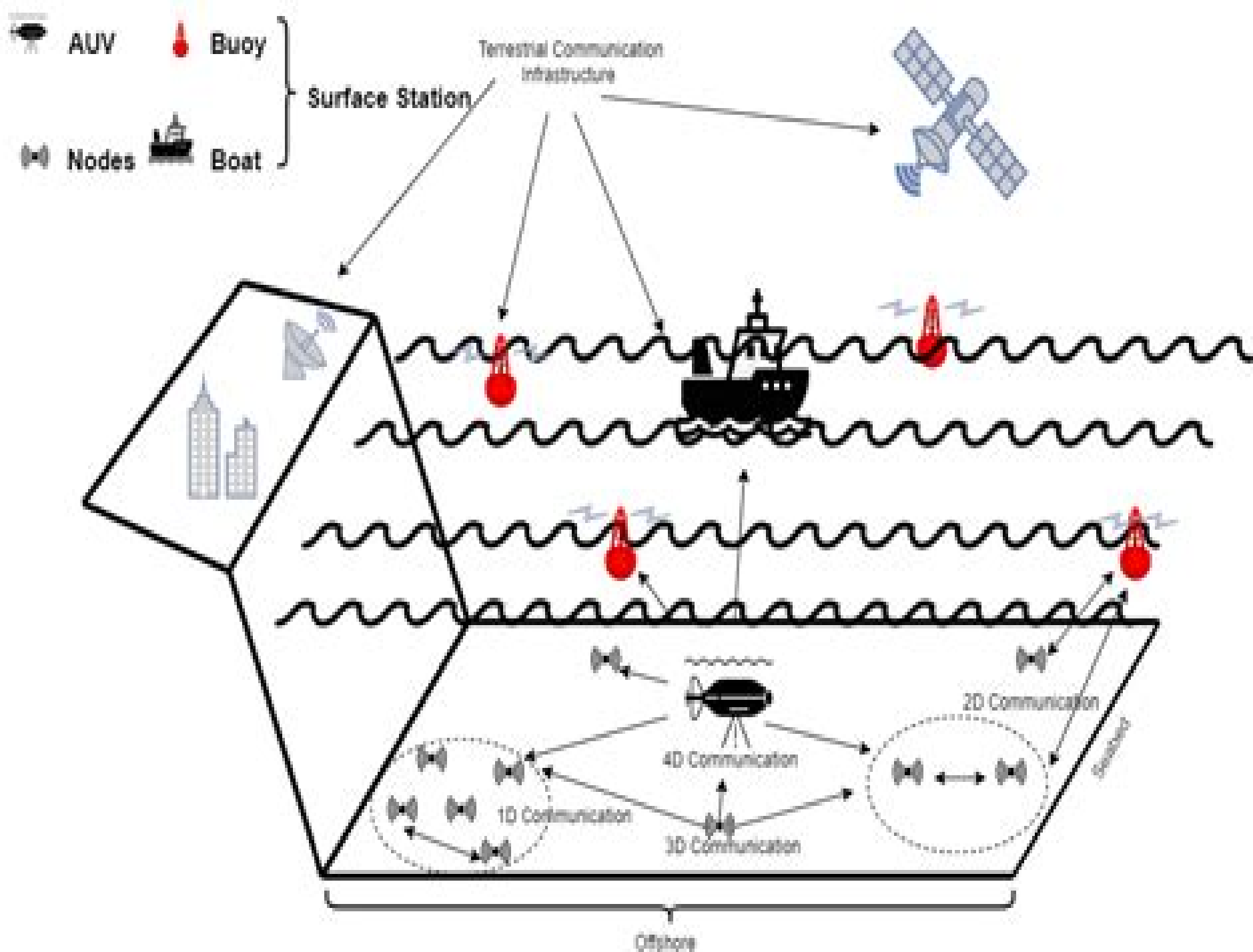




Underwater Acoustic Sensor Networks Underwater Acoustic Sensor Networks

Dario Pompili



Underwater Acoustic Sensor Networks Underwater Acoustic Sensor Networks:

Underwater Acoustic Sensor Networks Yang Xiao, 2010-05-19 A detailed review of underwater channel characteristics Underwater Acoustic Sensor Networks investigates the fundamental aspects of underwater communication Prominent researchers from around the world consider contemporary challenges in the development of underwater acoustic sensor networks UW ASNs and introduce a cross layer approach for effective communication *Underwater Acoustic Networking Techniques* Roald Otnes, Alfred Asterjadhi, Paolo Casari, Michael Goetz, Thor Husøy, Ivor Nissen, Knut Rimstad, Paul van Walree, Michele Zorzi, 2012-01-19 This literature study presents an overview of underwater acoustic networking It provides a background and describes the state of the art of all networking facets that are relevant for underwater applications This report serves both as an introduction to the subject and as a summary of existing protocols providing support and inspiration for the development of network architectures *Design, Optimization, and Applications of Underwater Acoustic Sensor Networks* Bhumika Gupta, Kamal Kumar Gola, 2023-02-24 The development of underwater sensor networks opens new possibilities for maritime exploration and data collection Underwater sensor networks have a variety of military and civilian applications that must be studied further to ensure they are utilized appropriately Design Optimization and Applications of Underwater Acoustic Sensor Networks serves as a premier interdisciplinary forum for researchers practitioners and educators to present the most recent innovations trends concerns and practical challenges encountered and solutions adopted in the fields of underwater acoustic communications and underwater wireless sensor networks The book also investigates underwater sensor network applications and challenges Covering key topics such as sensor devices acoustics and environmental processing this premier reference source is ideal for engineers computer scientists industry professionals researchers scholars academicians practitioners instructors and students **Energy-Efficient Underwater Wireless Communications and Networking** Goyal, Nitin, Sapra, Luxmi, Sandhu, Jasminder Kaur, 2020-09-04 Underwater wireless sensor networks UWSN are envisioned as an aquatic medium for a variety of applications including oceanographic data collection disaster management or prevention assisted navigation attack protection and pollution monitoring Similar to terrestrial wireless sensor networks WSN UWSNs consist of sensor nodes that collect the information and pass it to a base station however researchers have to face many challenges in executing the network in an aquatic medium Energy Efficient Underwater Wireless Communications and Networking is a crucial reference source that covers existing and future possibilities of the area as well as the current challenges presented in the implementation of underwater sensor networks While highlighting topics such as digital signal processing underwater localization and acoustic channel modeling this publication is ideally designed for machine learning experts IT specialists government agencies oceanic engineers communication experts researchers academicians students and environmental agencies concerned with optimized data flow in communication network securing assets and mitigating security attacks *Underwater Acoustic Sensor Networks Protocol Design* Lei Zhang, 2010-07 The limited bandwidth and

power resources as well as the 3 D topology in underwater acoustic sensor networks have made the geographic routing a favorite choice While most of the detour strategies in the existing geographic routing do not work well for underwater sensor networks the spanning tree routing detour strategy can efficiently find a detour for a packet when greedy forwarding fails In this research we propose novel spanning trees namely Traffic Aware Routing Tree TART and Energy Aware Routing Tree EART which are constructed completely in a bottom up fashion with the traffic load and residual energy level in mind Simulation results show that those spanning trees have very few conflicting hulls result in much higher path throughput and residual energy level when compared against other spanning trees leading to a better routing performance in a 3 D underwater acoustic sensor network

Underwater Acoustic Sensor Networks Peng Xie,2007 *Reliable Communication in Underwater Acoustic Sensor Networks* Zheng Guo,2011

Efficient Communication Protocols for Underwater Acoustic Sensor Networks Dario Pompili,2007 Underwater sensor networks find applications in oceanographic data collection pollution monitoring offshore exploration disaster prevention assisted navigation tactical surveillance and mine reconnaissance The enabling technology for these applications is acoustic wireless networking UnderWater Acoustic Sensor Networks UW ASNs consist of sensors and Autonomous Underwater Vehicles AUVs deployed to perform collaborative monitoring tasks The objective of this research is to explore fundamental key aspects of underwater acoustic communications propose communication architectures for UW ASNs and develop efficient sensor communication protocols tailored for the underwater environment Specifically different deployment strategies for UW ASNs are studied and statistical deployment analysis for different architectures is provided Moreover a model characterizing the underwater acoustic channel utilization efficiency is introduced The model allows setting the optimal packet size for underwater communications Two distributed routing algorithms are proposed for delay insensitive and delay sensitive applications The proposed routing solutions allow each node to select its next hop with the objective of minimizing the energy consumption taking the different application requirements into account In addition a resilient routing solution to guarantee survivability of the network to node and link failures in long term monitoring missions is developed Moreover a distributed Medium Access Control MAC protocol for UW ASNs is proposed It is a transmitter based code division multiple access scheme that incorporates a novel closed loop distributed algorithm to set the optimal transmit power and code length It aims at achieving high network throughput low channel access delay and low energy consumption Finally an efficient cross layer communication solution tailored for multimedia traffic i e video and audio streams still images and scalar sensor data is introduced

Stochastic Medium Access Control for Underwater Acoustic Sensor Networks Yu Han,2016 Underwater sensor networks UWSNs the enabling technology for a broad range of aquatic applications rely on acoustic communication for long range transmissions However underwater acoustic communication suffers from several adverse features such as long propagation delay and low bandwidth making the networking design for UWSNs much more challenging than their terrestrial counterparts Medium

access control MAC a crucial component in networking design coordinates among multiple agents that share the same channel resource and is responsible to schedule packet transmissions efficiently and fairly. However, due to the long propagation delay, the traditional handshaking based random access MAC protocols are not channel efficient for UWSNs. In this dissertation, we address the inefficiency issues in random access MAC for UWSNs using a stochastic sending probability based approach. We propose three handshaking free underwater MAC solutions targeting the same goal: high network throughput, low packet end-to-end delay, and robustness under dynamics, and controlled implementation complexity. The three solutions are based on a common utility based probability optimization framework but with different design considerations and objective functions. We first leverage the feature of long propagation delay, often taken as negative, to improve the parallelism between multiple senders. Our proposed protocol, the Delay Aware Probability based underwater MAC protocol (DAP MAC), characterizes the group compatibility relation, a proposed indicator for successful concurrent transmissions, and utilizes this relation in the stochastic optimization framework for the best transmission strategy. The drawback of DAP MAC is it requires long time slots to accommodate concurrent transmissions. We reduce the slot size and explicitly resolve the unique spatial-temporal uncertainty issue in UWSNs in our proposed protocol, the Traffic Adaptive Receiver Synchronized underwater MAC protocol (TARS). In TARS, we consider the data queue status and design the throughput optimal transmission strategy to be traffic adaptive, which is very suitable for mobile and traffic varying UWSNs. Simulation results show that TARS achieves the highest throughput and lowest packet delay among the typical representative MACs, about 13%–146% higher in throughput and 13%–21% lower in delay than others in a mobile ad hoc network. For further throughput improvement, we consider the capture effect and proactively create power capture at the receivers in our proposed protocol, the Stochastic MAC protocol with Randomized Power control (SMARP). We design a randomized power control scheme based on the non-negligible difference in acoustic propagation attenuation and include the capture success probability in the stochastic optimization framework. Simulation results show that SMARP yields better throughput and packet delay than TARS and other representative MACs, about 23%–240% higher in throughput and 27%–60% lower in delay than others in a mobile ad hoc network. Finally, toward the development of wireless networking for enabling marine observatory capabilities at the Northeastern University Marine Science Center, we implement the TARS protocol on our testbed. We conduct in-tank underwater experiments and evaluate the performance of the TARS protocol under a three-node single-hop network. Experimental results show that TARS achieves the highest packet delivery ratio with controlled low packet end-to-end delay than other representative handshaking free underwater MAC protocols and is very suitable for the actual implementation in UWSNs.

Cognitive Underwater Acoustic Networking Techniques Dimitri Sotnik, Michael Goetz, Ivor Nissen, 2020-09-29. This book summarizes the latest research on cognitive network layer methods and smart adaptive physical layer methods in underwater networks. Underwater communication requires extendable and delay tolerant

underwater acoustic networks capable of supporting multiple frequency bands data rates and transmission ranges The book also discusses a suitable foreground communication stack for mixed mobile static networks a technology that requires adaptive physical layer waveforms and cognitive network strategies with underlying cooperative and non cooperative robust processes The goal is to arrive at a universally applicable standard in the area of Underwater Internet of Things ISO IEC 30140 30142 30143 The book is the second spin off of the research project RACUN after the first RACUN book Underwater Acoustic Networking Techniques <https://link.springer.com/book/10.1007/978-3-642-25224-2>

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