

- 7 Years of Excellence in IEEE Project development for universities across INDIA, USA, UK, AUSTRALIA, and SWEDEN.
- Expert developers in JAVA , DOT NET , ANDROID , PHP, MATLAB , NS2 , NS3 , VLSI ,CLOUD SIM, TANNER , MICROWIND , EMBEDDED , ROBOTICS , MECHANICAL , MECHATRONICS , WIRELESS NETWORKS, OPNET , OMNET
- Over 11000+ projects , 425 clients - MICANS INFOTECH provides IEEE & application projects for CSE,IT,ECE,EEE,MECH,CIVIL,MCA,M.TECH,M.PHILL,MBA,

IEEE Projects 100% WORKING CODE + DOCUMENTATION+ EXPLANATION – BEST PRICE

LOW PRICE GUARANTEED

L-MAC Localization packet scheduling for an underwater acoustic sensor network

ABSTRACT

This article concerns the problem of scheduling the localization packets of the anchors in an underwater acoustic sensor network (UASN). Knowing the relative positions of the anchors and their maximum transmission range, we take advantage of the long propagation delay of underwater communication to minimize the duration of the localization task. First, we formulate the concept of collision-free packet transmission for localization, and we show how the optimum solution can be obtained. Further-more, we propose two low-complexity algorithms, and through comprehensive simulations we compare their performances with the optimal solution as well as other existing methods.

micansinfotech, NO: 8 , 100 FEET ROAD,PONDICHERRY.

WWW.MICANSINFOTECH.COM ; MICANSINFOTECH@GMAIL.COM

+91 90036 28940; +91 94435 11725

- 7 Years of Excellence in IEEE Project development for universities across INDIA, USA, UK, AUSTRALIA, and SWEDEN.
- Expert developers in JAVA , DOT NET , ANDROID , PHP, MATLAB , NS2 , NS3 , VLSI ,CLOUD SIM, TANNER , MICROWIND , EMBEDDED , ROBOTICS , MECHANICAL , MECHATRONICS , WIRELESS NETWORKS, OPNET , OMNET
- Over 11000+ projects , 425 clients - MICANS INFOTECH provides IEEE & application projects for CSE,IT,ECE,EEE,MECH,CIVIL,MCA,M.TECH,M.PHILL,MBA,

IEEE Projects 100% WORKING CODE + DOCUMENTATION+ EXPLANATION – BEST PRICE

LOW PRICE GUARANTEED

Numerical results show that the proposed algorithms perform near optimum and better than alternative solutions.

EXISTING SYSTEM

Medium access control (MAC) protocol design for localization. Although, we can employ existing wireless sensor network (WSN) MAC protocols and algorithms for the localization task, the unique properties of UASNs, such as long propagation delay, low data rate, and high transmission loss, make them inefficient for UASNs. To compare the performance with appropriate existing underwater MAC protocols such as OCSMA, and traditional slotted methods (Slotted). In OCSMA, no simultaneous packet transmission is allowed, and each anchor can transmit after the complete reception of the previous anchor. It can be deduced that optimum OCSMA is the optimal solution of the localization time minimization if each anchor is in the acoustic communication range of all the other anchors.

micansinfotech, NO: 8 , 100 FEET ROAD,PONDICHERRY.

WWW.MICANSINFOTECH.COM ; MICANSINFOTECH@GMAIL.COM

+91 90036 28940; +91 94435 11725

- 7 Years of Excellence in IEEE Project development for universities across INDIA, USA, UK, AUSTRALIA, and SWEDEN.
- Expert developers in JAVA , DOT NET , ANDROID , PHP, MATLAB , NS2 , NS3 , VLSI ,CLOUD SIM, TANNER , MICROWIND , EMBEDDED , ROBOTICS , MECHANICAL , MECHATRONICS , WIRELESS NETWORKS, OPNET , OMNET
- Over 11000+ projects , 425 clients - MICANS INFOTECH provides IEEE & application projects for CSE,IT,ECE,EEE,MECH,CIVIL,MCA,M.TECH,M.PHILL,MBA,

IEEE Projects 100% WORKING CODE + DOCUMENTATION+ EXPLANATION – BEST PRICE

LOW PRICE GUARANTEED

PROPOSED SYSTEM:

We have formulated the problem of scheduling the localization packets of the anchors in an underwater sensor network. Furthermore, we have proposed two low-complexity algorithms in order to minimize the duration of the localization task. We have shown that the proposed algorithms perform near optimum, and much better than other alternative solutions such as TDMA-based approaches and OCSMA. In the future, we want to address the problem of localization when most of the underwater nodes are not under the coverage of the anchors. The optimal MAC protocol for such networks can be considered as an extension of the work carried out in this paper.

micansinfotech, NO: 8 , 100 FEET ROAD,PONDICHERRY.

WWW.MICANSINFOTECH.COM ; MICANSINFOTECH@GMAIL.COM

+91 90036 28940; +91 94435 11725

- 7 Years of Excellence in IEEE Project development for universities across INDIA, USA, UK, AUSTRALIA, and SWEDEN.
- Expert developers in JAVA , DOT NET , ANDROID , PHP, MATLAB , NS2 , NS3 , VLSI ,CLOUD SIM, TANNER , MICROWIND , EMBEDDED , ROBOTICS , MECHANICAL , MECHATRONICS , WIRELESS NETWORKS, OPNET , OMNET
- Over 11000+ projects , 425 clients - MICANS INFOTECH provides IEEE & application projects for CSE,IT,ECE,EEE,MECH,CIVIL,MCA,M.TECH,M.PHILL,MBA,

IEEE Projects 100% WORKING CODE + DOCUMENTATION+ EXPLANATION – BEST PRICE

LOW PRICE GUARANTEED

SYSTEM REQUIREMENTS

Hardware Requirements

- Processor - Pentium –III
- Speed - 1.1 Ghz
- RAM - 256 MB(min)
- Hard Disk - 20 GB
- Key Board - Standard Windows Keyboard
- Mouse - Two or Three Button Mouse
- Monitor - SVGA

Software Requirements:-

micansinfotech, NO: 8 , 100 FEET ROAD,PONDICHERRY.

WWW.MICANSINFOTECH.COM ; MICANSINFOTECH@GMAIL.COM

+91 90036 28940; +91 94435 11725

- 7 Years of Excellence in IEEE Project development for universities across INDIA, USA, UK, AUSTRALIA, and SWEDEN.
- Expert developers in JAVA , DOT NET , ANDROID , PHP, MATLAB , NS2 , NS3 , VLSI ,CLOUD SIM, TANNER , MICROWIND , EMBEDDED , ROBOTICS , MECHANICAL , MECHATRONICS , WIRELESS NETWORKS, OPNET , OMNET
- Over 11000+ projects , 425 clients - MICANS INFOTECH provides IEEE & application projects for CSE,IT,ECE,EEE,MECH,CIVIL,MCA,M.TECH,M.PHILL,MBA,

IEEE Projects 100% WORKING CODE + DOCUMENTATION+ EXPLANATION – BEST PRICE

LOW PRICE GUARANTEED

- Operating System : LINUX
- Tool : Network Simulator-2
- Front End : O TCL (Object Oriented Tool Command Language)

REFERENCE

- [1] G. Han, J. Jiang, L. Shu, Y. Xu, and F. Wang, "Localization algorithms of underwater wireless sensor networks: A survey,"Sensors, vol. 12, no. 2, pp. 2026–2061, 2012.
- [2] H. Ramezani and G. Leus, "Ranging in an underwater medium with multiple isogradient sound speed profile layers,"Sensors, vol. 12, no. 3, pp. 2996–3017, 2012.

micansinfotech, NO: 8 , 100 FEET ROAD,PONDICHERRY.

WWW.MICANSINFOTECH.COM ; MICANSINFOTECH@GMAIL.COM

+91 90036 28940; +91 94435 11725

- 7 Years of Excellence in IEEE Project development for universities across INDIA, USA, UK, AUSTRALIA, and SWEDEN.
- Expert developers in JAVA , DOT NET , ANDROID , PHP, MATLAB , NS2 , NS3 , VLSI ,CLOUD SIM, TANNER , MICROWIND , EMBEDDED , ROBOTICS , MECHANICAL , MECHATRONICS , WIRELESS NETWORKS, OPNET , OMNET
- Over 11000+ projects , 425 clients - MICANS INFOTECH provides IEEE & application projects for CSE,IT,ECE,EEE,MECH,CIVIL,MCA,M.TECH,M.PHILL,MBA,

IEEE Projects 100% WORKING CODE + DOCUMENTATION+ EXPLANATION – BEST PRICE

LOW PRICE GUARANTEED

[3] C. Petrioli, R. Petroccia, and M. Stojanovic, “A comparative performance evaluation of MAC protocols for underwater sensor networks,” in Proc. OCEANS 2008, 2008, pp. 1–10

MICANS INFOTECH

micansinfotech, NO: 8 , 100 FEET ROAD, PONDICHERRY.

WWW.MICANSINFOTECH.COM ; MICANSINFOTECH@GMAIL.COM

+91 90036 28940; +91 94435 11725