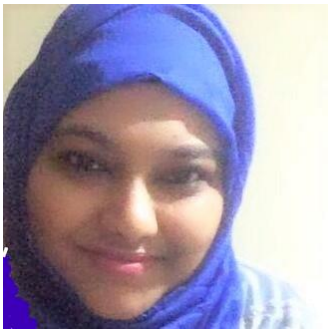


Title: A Survey of Simulation Tools for Underwater Wireless Sensor Networks

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The oceans cover about 71% of the earth's surface and contain about 97% of the earth's water. Autonomous Underwater Vehicles(AUVs) and Unmanned Autonomous Vehicles(UAVs) are equipped with underwater sensors to explore natural oceanic habitats and gather scientific data for monitoring applications. The objective of this survey paper is to study the key features and limitations of existing simulation tools for Underwater Wireless Sensor Networks(UWSN) in detail. The study is focuses on the unique characteristic of the simulation tool, developers of the simulation tools and the appropriate applications for which the simulation tools can be used. The study concludes with a comparison of UWSN Simulation tool parameters such as specification, language, energy efficiency, application to heterogeneous networks, ease of use, software, hardware and options for open source availability. This survey paper intends to help researchers select the right simulation tools based on their research applications.

Biography

Syeda Shafia Rubbani is currently pursuing her PhD at Heriot Watt University Dubai Campus, School of Mathematical and Computer Sciences. She has published 4 papers in International and National Conferences. She is a Research Scholar with a passion for Teaching. Her areas of research interest are Artificial Intelligence, Data Analytics and Underwater Network Security. She is currently Supervised by Dr Mohammad Hamdan (Heriot Watt University Dubai Campus) as her Primary Supervisor and Dr Michael Lones (Heriot Watt University Edinburgh Campus) as her Second Supervisor.

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