Abstract

The world has become more and more dependent upon oil based products, derived from petroleum. Large volume of oil is stored and transported through water transport. Sometimes in transport, oils are spilled onto level or in water. Spillage of oil can seriously affect the marine environment as a result of physical challenges and toxic effects. When an oil spill occurs the damage may be limited and extend over a small area or be extensive and encompass a large area. In all of these situations, it is important for scientists, citizens and government officials to know what to expect and what action need to be taken when spills occur. Bacterial Foraging Optimization Algorithm is considered for solving the problem of oil spillage in marine. The
proposed work focuses on remotely locating the spill areas in marine with the use of automatic robotic swarms termed as Aquaboats. These aquaboats are supposed to enter the sea or ocean and tend to move randomly over the area to locate the spill. And once the spill got in contact with the boundary of aquaboats, it stops and corresponding results are tabulated.

References

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Index Terms

Computer Science Algorithms
Keywords
Marine  Aquaboats  Bacterial Foraging Optimization  Oil Spilling