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(57) Abstract :

Current sea monitoring equipment is utilized globally for various applications. The vehicles in use today come with several disadvantages. Firstly, they incur high fuel expenses, as the engines require more power, leading to greater fuel consumption and increased environmental pollution. Additionally, these vehicles cannot remain submerged for extended periods and often need to surface for refueling. Secondly, the vibrations and noise produced by these vehicles can negatively impact ocean biodiversity. Furthermore, the noise makes it easier for adversaries to detect our vehicles. When submerged, these vehicles create water disturbances on the surface, which can be detected by radar. This project presents an artificial intelligence-based microbiological model designed to monitor sea levels. This biological model has the potential to significantly reduce fuel usage. It can achieve greater capacity compared to conventional vehicles. As fuel consumption declines, environmental pollution also diminishes, and because it operates quietly with minimal vibrations, it poses no risk to marine biodiversity.

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