24/24 smart stations for monitoring sea coast or artificial water river

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Abstract

This is a new applied engineering study for the possibility to monitor huge distances of sea coast, or artificial river collecting water nodes against pollution in water quality by measuring network with biological early warning system, it is continuous and automated sea/water quality monitoring and thus makes an important contribution to the early detection of disasters or accidents as well as to the evaluation of hazard potentials. This system used for efficient control of automated sea/water quality, and continuous sea/water quality monitoring for twenty four hours analysis using smart stations connected over wireless computer network instead of old method of sample collection then lab analysis.

The functionality of the 100% web-based multi-tier-system comprises workflows for automatic sampling and quality assurance, the administration and control of equipment in the measuring stations, numerous options for data evaluation, illustration and export as well as a notification system.

Keywords: smart sensor, pollution, data network