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Abstract:

Water quality assessment continues to be an important challenge, different wired and wireless sensor networks based on water quality (WQ) transducers being reported in the literature. Taking into account the measurement of multiple WQ parameters in different surface water locations, the paper presents a hybrid distributed measurement architecture that combines a wired network supporting SDI-12 protocol and a long range wireless communication based on XSTREAM RF modems. The system is used to monitor the ocean influence in the Sado estuary as well as the anthropogenic factors influence.

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I. Introduction

The invention of the four-element theory of matter (earth, air, water and fire) is attributed to Empedocles of Agrigentum (around 450 BC). Two and a half millennia after, in our age, there is general recognition and concern that the first three of these ancient elements have become polluted by human activity, often involving the fourth ancient element as an agent [1]. Environmental concerns are so deeply felt that they have become the basis for organized political activity at national and international levels. Today, "mankind" must address serious problems connected to the natural resources exhausting, environmental pollution, and ecosystem destruction.

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