

A Distributed Web-based Water Quality Diagnosis and Simulation System in Lakes and Reservoirs

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Abstract

Over the last few years Connectionistic Networks, also referred to as Parallel Distributed Processing Systems or Neural Networks (NNs), have been in the center of a renewed and increasing interest. Indeed, the application of NNs in different arenas such as forecasting, machine vision or speech recognition are examples of their widely use in problem solving. The advent of environments for creating and using software agents, allowing for cooperation and interactions among such entities, have proved to be and interesting to explore their potential. Combining these technologies, a prototype of a Distributed Web-Based Multi-Agent Water Quality Diagnosis and Simulation System in Lakes and Reservoirs, built up both on symbolic and nouvelle Artificial Intelligence, offering the possibility of web-based links emerged.