

IMPLEMENTASI FUZZY INFERENCE SYSTEM (FIS) METODE TSUKAMOTO PADA SISTEM PENDUKUNG KEPUTUSAN PENENTUAN KUALITAS AIR SUNGAI

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ABSTRAK

Air merupakan salah satu sumber daya alam yang memiliki fungsi sangat penting bagi kehidupan dan perkehidupan manusia. Sungai sebagai saluran utama pengalir air dari hulu ke hilir, memiliki banyak aktivitas domestik dan industri di sepanjang alirannya. Dinamika aliran tersebut menimbulkan perubahan kualitas dan kuantitas sungai secara signifikan. Kualitas air dijaga dengan melakukan analisis kualitas air sungai. Analisis kualitas air sungai sangat berhubungan dengan sistem pendukung keputusan (SPK) penentuan kualitas air sungai. SPK adalah sistem yang dirancang untuk mempermudah petugas penentuan kualitas air dalam mengambil keputusan. Proses analisa kualitas air dilakukan dengan *Fuzzy Inference System* metode *Tsukamoto*. Input yang dibutuhkan adalah parameter uji kualitas air yang terdiri dari parameter fisika dan parameter kimia. Metode *Fuzzy Tsukamoto* digunakan untuk menentukan kualitas air sungai kedalam empat kelas yaitu memenuhi baku mutu (kondisi baik), tercemar ringan, tercemar sedang, dan tercemar berat. Hasil dari skenario pengujian didapatkan tingkat akurasi antara hasil perhitungan metode *Fuzzy Tsukamoto* dengan hasil perhitungan kualitas air sungai metode *STORET* sebesar 90%.

Kata kunci : Sistem Pendukung Keputusan, Kualitas Air Sungai, *Fuzzy Tsukamoto*, *STORET*.

ABSTRACT

Water was one resource that has a very important function for life and human life. River was the main channel as water flowing from upstream to downstream, has many domestic and industrial activity along the stream. The flow dynamics lead to changes in

the quality and quantity of the river significantly. Water quality was maintained by analyzing the quality of the river water. *Decision Support System (DSS)* was a system designed to simplify the determination of water quality officer in making decisions. Inputs are parameter water quality test that consists of physical parameters and chemical parameters. The process of water quality analysis was conducted using *Fuzzy Inference System Tsukamoto* method. *Fuzzy tsukamoto* method used to determine the water quality of the river into four (4) classes which meet quality standards (good condition), lightly polluted, contaminated medium, and heavy polluted. The results of tested scenarios obtained an accuracy rate between the results of the calculation method of *Fuzzy Tsukamoto* with the calculated water quality *STORET* method at 90%.

Keywords : *Decision Support Systems*, *Water Quality River*, *Fuzzy Tsukamoto*, *STORET*.

1. PENDAHULUAN

Sungai merupakan suatu wadah mengalirnya sumberdaya air secara gravitasi dari hulu ke hilir. Banyaknya aktivitas domestik dan industri di sepanjang sungai serta adanya dinamsika aliran tersebut menimbulkan perubahan kualitas dan kuantitas sungai secara signifikan (Peraturan Pemerintah Republik Indonesia Nomor 82 Tahun 2001 tentang Pengelolaan Kualitas Air dan Pengendalian Pencemaran Air). Diperlukan suatu upaya untuk menjaga kuantitas, kontinuitas, dan kualitas sungai. Upaya untuk memantau dan mengendalikan pencemaran air sungai adalah melakukan pengukuran dan analisis kualitas air sungai, sebagaimana diatur dalam Peraturan Pemerintah no 82 tahun 2001. Berdasarkan Keputusan Menteri Negara Lingkungan Hidup

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