

## Problems in toxicity analysis – application of fuzzy neural networks

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### **Abstract**

Toxicity is one of most important parameters used in determining environmental impact of pollutions. Current system of water and treatment classification doesn't include toxicity but only physical and chemical parameters. As results from various projects shows these parameters doesn't provide full information about environment impact. New systems of water classification based on toxicity are developed. Key problem in developing and common usage toxicity based water classification systems is method of toxicity analysis. Standard procedures based on tests on microorganisms are long and expensive. Automation of this process is hard to develop. Many of physical and chemical properties are included into standard monitoring procedures. Moreover some these parameters can be measured online with low cost. This work presents first step of researches about using well known physical and chemical properties of pollutants to determine toxicity by using ANFIS (Artificial Network Fuzzy Interference System).

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