



ChemTech

International Journal of ChemTech Research

CODEN (USA): IJCRGG, ISSN: 0974-4290, ISSN(Online):2455-9555
Vol.10 No.15, pp 26-30, 2017

Environmental Quality Estimation in the Minero River Basin (Cundinamarca, Colombia) using Artificial Neuronal Net - Levenberg Marquardt

Rodríguez Miranda Juan Pablo^{1*}; García Ubaque Cesar Augusto²;
Sánchez Céspedes Juan Manuel³

¹Sanitary and Environmental Engineer. Magister in Environmental Engineering. PhD (Candidate). Associate Professor. Universidad Distrital Francisco Jose de Caldas. Director of the AQUAFORMAT research group. PostalAddress: Carrera 5 Este No 15 - 82. Avenida Circunvalar Venado de Oro. Bogotá DC Colombia.

²Civil Engineer. Doctor of Engineering. Associate professor. Francisco Jose de Caldas District University. Director of research group GIIICUD, Colombia.

³Electronic Engineer. Magister in Administration. GIIIRA Research Group. Assistant teacher. Francisco Jose de Caldas District University, Colombia.

Abstract : The present paper considers the use of artificial neural network artificial intelligence technique, Levenberg Marquardt method, to emulate the evaluation done by a group of experts, for the estimation of the concurrent environmental quality evaluated in the conditions of the Minero River Basin, integrating the variables water quality (BOD, TSS, N-NO₂ y P_{total}) an the precipitation in a collaborative model.

Key Words : Artificial Neural Network, Watershed, Environmental Quality.

Rodríguez Miranda Juan Pablo *et al* /International Journal of ChemTech Research, 2017,10(15): 26-30.
