Application of Artificial Neuronal Network (Levenberg Marquard algorithm) in the Sumapaz River (Cundinamarca, Colombia) in the Environmental Quality valuation

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Abstract : The present paper considers the application of the artificial intelligence technique "Neural network net using Levenberg Marquardt algorithm" to analyze and determine the environmental quality in the Sumapaz River watershed to emulate the assessment performed by a group of valuation experts integrating concurrent environmental quality variables water quality (BOD, TSS, N and $P_{total\ -NO2}$) and precipitation in a collaborative model.

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

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