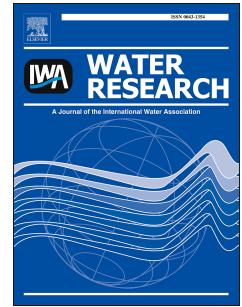


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Water quality assessment with emphasis in parameter optimisation using pattern recognition methods and genetic algorithm

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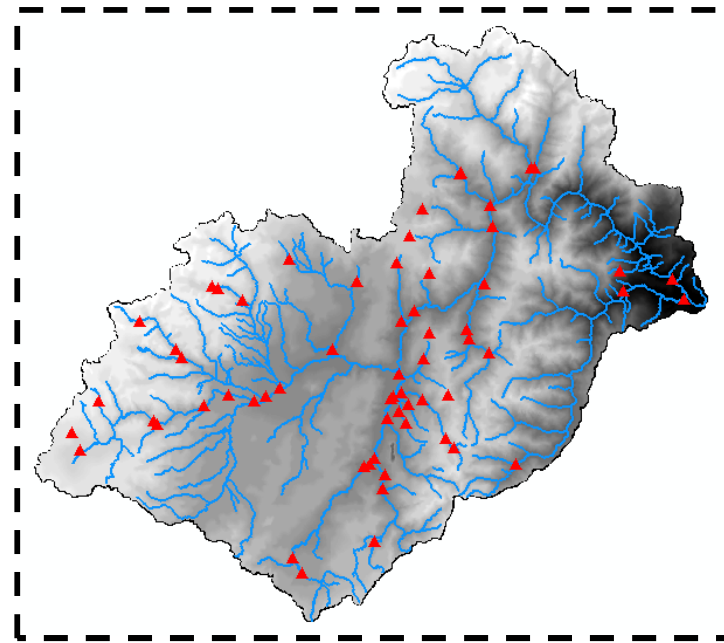
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INPUT: Study site (Paute basin, Ecuador) + WQ monitoring network



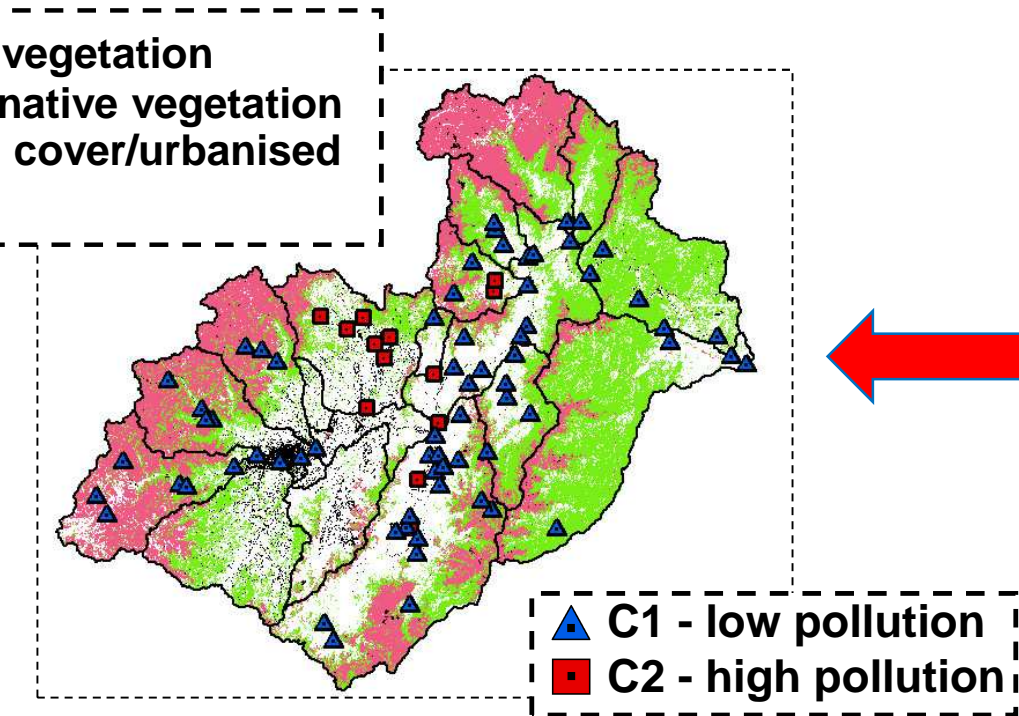
study site (period 2008-2013)



OUTPUT: Large

$$\mathbf{X} = \begin{pmatrix} x_{11} & x_{12} \\ x_{21} & x_{22} \\ \dots & \dots \\ \dots & \dots \\ x_{n1} \end{pmatrix}$$

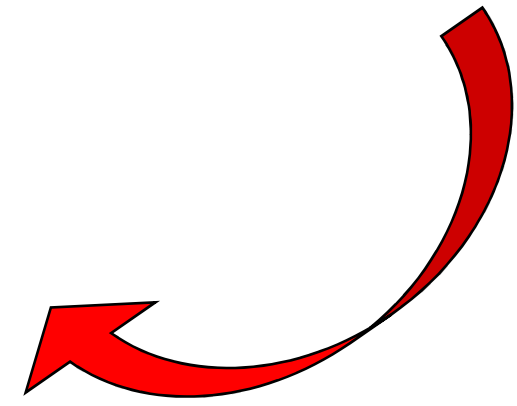
Q classes + key WQ parameters explaining WQ (i.e. reduction of parameter space dimension)



PROCESS: Data mining

- Pattern recognition
- Machine learning
- Genetic Algorithm

INPUT: Large



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