

Title: Intelligent Systems Modelling

Abstract: Water is a precious resource that should be managed carefully. However, due to leakages in Water Distributed Networks (WDNs), a large amount of water is lost each year, suggesting a reliable and robust leak detection and localization system. We will review the current technologies for leakage detection in WDN and several proposed intelligent methodologies. The current methods and their limitations are discussed. Uncertainties involved in the implementation of WDN leakage detection are presented. Few suggestions to overcome such uncertainties are provided.