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A Survey on Different CPM Leak Detection Methods, and Their Comparison

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In this survey we are going to gather different CPM (computational pipeline monitoring) leak detection methods. Unfortunately these methods are not seriously considered in Iran. Therefore our goal is to gather these methods to get the big picture, and to find their cons & pros. There are various methods in this category, so we chose the ones which have enjoyed wide acceptance in application. Finally we have compared these methods by different parameters. We did not rate the methods, because rating these methods depends on many variations, such as existing infrastructure, cost of implementation each method have, transported material, etc. furthermore the way each CPM system is designed, developed and implemented affects its capability to respond to operator needs. As a result this comparison mainly gives a big picture for choosing a special method for a special pipeline.

Keywords: Leak detection, Computational Pipeline Monitoring Systems, SCADA, Dispatching

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