Semantic Importance Generalization and Benchmark Framework

RDF Stream

Semantic Importance Ontology

Ontologies

Window

Sliding Window

Landmark Window

Logical Window

Physical Window

Operation Semantics

on window close

on content change

non empty content

periodic

Semantic Importance

Provenance

Trustworthiness

Query Participation

Query Relevance

Continuous Query Language

CSPARQL

CQELS

Window Management Strategy

LFU   LRU   FIFO   Trust   FEFO

QRLFU   QRLRU   QRFIFO   QRTrust

QRFEFO   FEFIFO   FELFUFO

QRFELFUFIFO   QRFELRUFIFO

...

Precision

Response Time

Memory Consumption

Throughput