incremental Reasoning upon rapidly world evolving to enhance quality on stream data

Mots clés :
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Résumé du projet de recherche (Langue 1)

Our modern life is characterized by applications offering a real-time experience, such as social networks or any application requiring a real-time notification system, video games or any mobile application accompanying our mobility in several ways, both for business and entertainment, where it concerns all types of data including e-commerce purchases, geolocated services, logs, etc. Hence, with those characteristics of our life, some queries rise such as can we reroute travelers on the basis of the forecast? Where are all my friends meeting? Where can I find available parking close to my current position? Even though the information required to answer these questions is becoming increasingly available on the web with the semantic are often inconsistent, there’s currently no system capable of computing the answers indeed, no system even lets users issue such queries. The reason is straightforward: answering such queries requires systems that can manage rapidly changing worlds at the semantic level by analysing the quality of stream data [Della 09]. Therefore, the need is to process multiple streams of data by providing incremental reasoning to make realtime and efficient decisions with quality.