

## Contextualized Information Delivery on the Semantic Web

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Since users usually make very vague requests (e.g. short queries), information overload is one of the main problems in current information retrieval systems. The problem is caused by the mismatch between a user's information need and the short query that arises from it: a query represents usually only a part of the user's knowledge gap (the so-called cognitive dimension of an information need), but it does not indicate the user's search preferences (the so-called affective dimension) or the task that should be resolved (the so-called situational dimension). In this lecture we will discuss challenges and opportunities for such a contextualisation of the search process on the Semantic Web. The context is represented formally and explicitly in the form of an ontology, which enables powerful reasoning about various contextual situations. Moreover, due to the reluctance of users to provide feedback information, the context is generated automatically from the retrieval process. As an illustration of such a contextualized information delivery, we will present a case study in the digital library domain.