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Visualisation of Large Semantic Datasets: A Scalable, Generic and Aesthetic Approach

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Abstract

With data continuously generated as a result of daily activities within large organisations and new data sources (sensors, datasets etc.) introduced as sources of semantic data, a significant growth of semantic knowledge within organisations is observed. Several organisations have already started integrating Linked Data (LD) within their enterprise and many success stories have emerged that are seen as great examples of the Semantic Web effort in the enterprise. A multitude of visualisation methods have been proposed by the community, ranging from standalone visualisation systems to web based mashups and browsers. However, most of such methods suffer from two major drawbacks: genericity and scalability. This talk presents recent work in alleviating such issues, and highlights the need for User Centred Design processes and aesthetic design principles in designing semantic web solutions for exploring large semantic datasets.