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Semantic Analysis Based Clustering and Collaborative Filtering In Big Data Systems

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Abstract: Collaborative filtering is a technique used by recommender systems for providing appropriate recommendations to users. Users nowadays encounter unprecedented difficulties in finding ideal ones from the overwhelming services. Semantic analysis based Collaborative filtering is a method of making automatic predictions (filtering) about the interests of a user by collecting preferences or taste information from many users. Collaborative filtering typically involves very large data sets which cannot be processed by the traditional approaches. This paper, which aims at recruiting similar services in the same clusters to recommend users collaboratively. To improve the scalability and efficiency in bigdata environment semantic analysis based collaborative filtering is implemented on Hadoop, which is an open source framework where big data can be stored, processed and analyzed.