Plagiarism Scan Report

Summary	
Report Genrated Date	15 May, 2018
Plagiarism Status	**100% Unique**
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It aims to design an efficient and easily parallelizable method for matrix factorization in large-scale recommender systems. It shows that coordinate descent methods are effective for nonnegative matrix factorization (NMF). This motivates us to investigate coordinate descent approaches. They propose a coordinate descent based method, CCD++, which has fast running time and can be easily parallelized to handle data of various scales. The main contributions of this paper are:
 They proposed a scalable and efficient coordinate descent based matrix factorization method CCD++. The time complexity per iteration of CCD++ is lower than that of ALS, and it achieves faster convergence than SGD.
 They prove that CCD++ can be simply useful to problems of various scales on both shared-memory multi-core and distributed systems.