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[Home](#) > [Advanced Informatics for Computing Research](#) > Conference paper

Efficient Entity Resolution for Bibliographic Data Using MapReduce

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Abstract

Entity resolution is a process to identify all objects/entities referring to the same real-world object. The standard process to extract matches is to compare every entity with all the available entities using some similarity computation technique. It results into inefficient quadratic time complexity for huge datasets. To reduce the number of comparisons for entity pairs, blocking techniques thus become necessary. The objective of this