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### A New Prefetching-aware Data Replication to Decrease Access Latency in Cloud Environment

N. Mansouri , M.M. Javidi

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## Highlights

- A prefetching data replication based on the data file correlation is proposed.
- The proposed strategy stores the most popular group of files to the requester site.
- It ascertains the importance of replicas based on the fuzzy inference system.
- Strategies evaluated using the CloudSim simulator for different configurations.
- The proposed strategy prevents unnecessary creation of replica.

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