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A privacy-preserved full-text retrieval algorithm over encrypted data for cloud storage applications

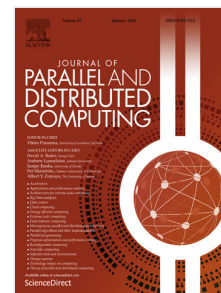Wei Song, Bing Wang, Qian Wang, Zhiyong Peng, Wenjing Lou, Yihui Cui

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Highlights:

- We identify the problem of secure full-text retrieval over the encrypted data.

- A full-text retrieval algorithm based on the hierarchical Bloom filter tree index.

- A privacy-preserved ranking algorithm based on the membership entropy of words.

- The security and efficiency analysis of the proposed scheme.

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