

Implementation of Intelligent Search Mechanism by using Log-Based Forwarding

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Abstract

This system develops an intelligent search mechanism among large amount of distributed data on a Peer-to-Peer network. To illustrate the intelligent search mechanism, the system builds a decentralized newspaper application. The newspaper is organized as a network of peers; each peer maintains a set of articles. By using the proposed mechanism, a peer can efficiently search for articles in the newspaper. The system is implemented on top of the P2P network by using Java programming language. The Intelligent Search mechanism improves on the first by having each peer in the network build a profile of its peers, and use the profile to find, for each query, which peers are likely to answer. It then forwards the query to those peers only.