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Flooding Based Resource Discovery

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Abstract - It has been observed from literature that decentralized resource discovery in distributed system is based on flooding . with flooding , a node searching for a resource contracts its neighbors in the network , which in turn contract their own neighbors and so on until a node possessing the requested resource is located . Flooding assumes no knowledge about the network topology or the resource distribution resource thus offering an attractive means for resource discovery in dynamically evolving networks such as peer- to -peer systems . We consider a distributed approach , in which each node maintains a local cache with information about K resources that is for each of the K resources a node that provides it . We consider three different search strategies based on subset of its neighbours each node contacts ,namely ,the flooding ,teeming and random paths strategies . with flooding node A that searches for a resource X checks its cache , and if the resource is not found there, A contracts all its neighbours . To reduce the number of messages in flooding, we consider a variation of flooding called teeming . Teeming can reduce the overall number of messages. One approach to eliminate this drawback is performing a random path or random walker .