



Anti-Sybil Mechanism against Bogus Identities in Social Networks

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Abstract: Most of the large scale social networking sites and small private social networks on the Internet are open to Sybil attacks. The Sybil attack is an attack where in an adversary creates multiple Duplicate or False identities to compromise the running of the system. By including false information by the Duplicated entities, an adversary can mislead a system into making decisions benefiting. Defending against Sybil attacks is quite challenging. This paper presents Sybil Defender, a sybil defense mechanism that leverages the network topologies to defend against sybil attacks in social networks. Sybil Defender can effectively identify the sybil nodes and detect the sybil community around a sybil node and it is feasible to limit the number of attack edges in online social networks by relationship rating.

Keywords: Sybil attack, social network, random walk

